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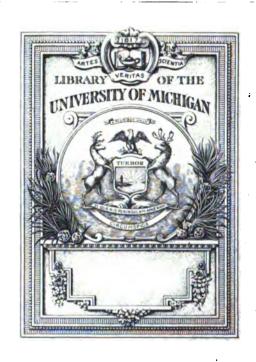
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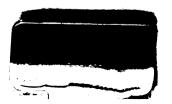
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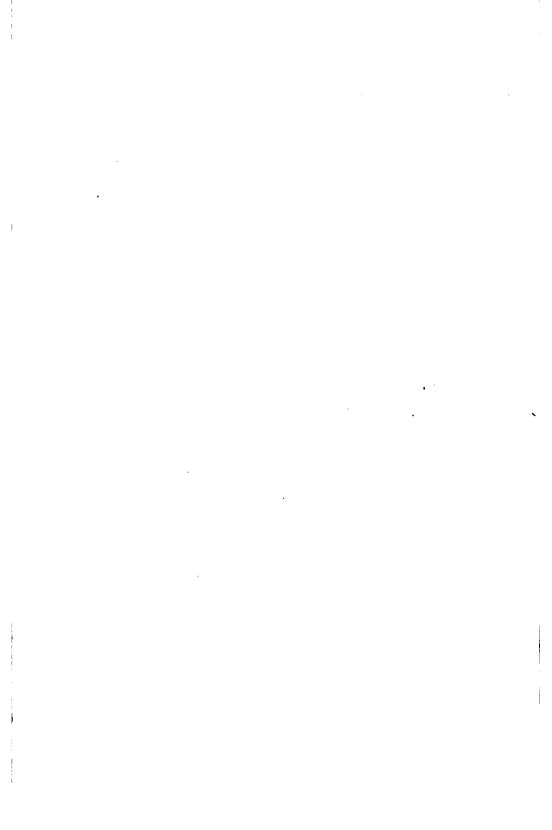
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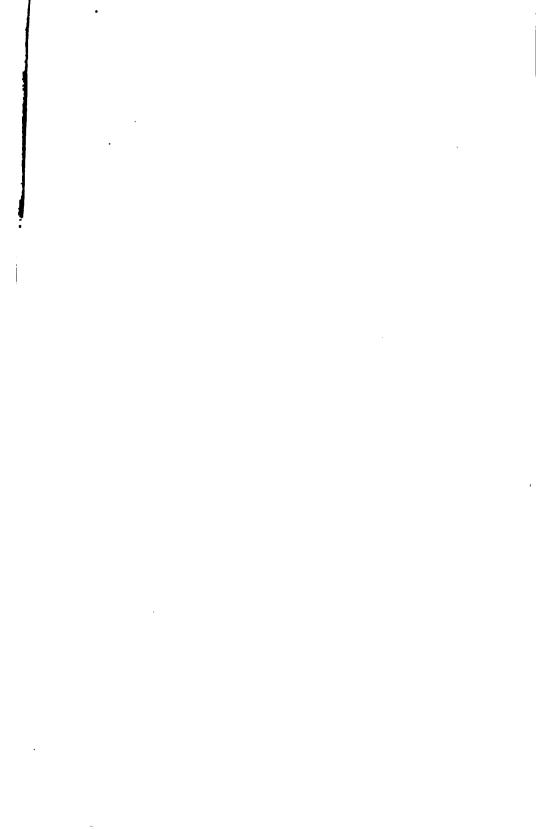


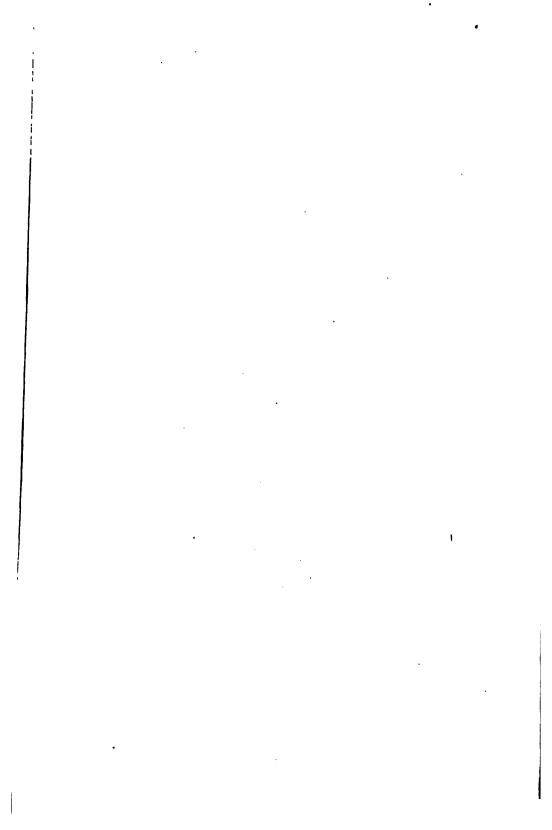


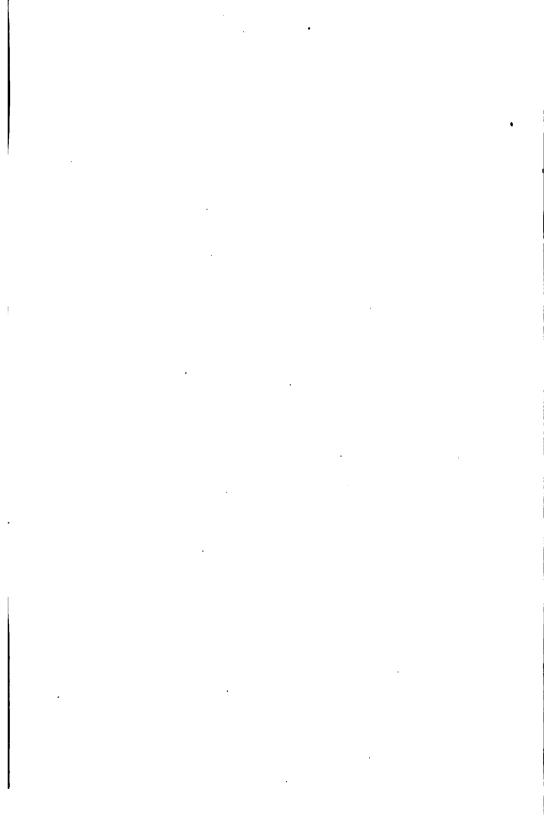
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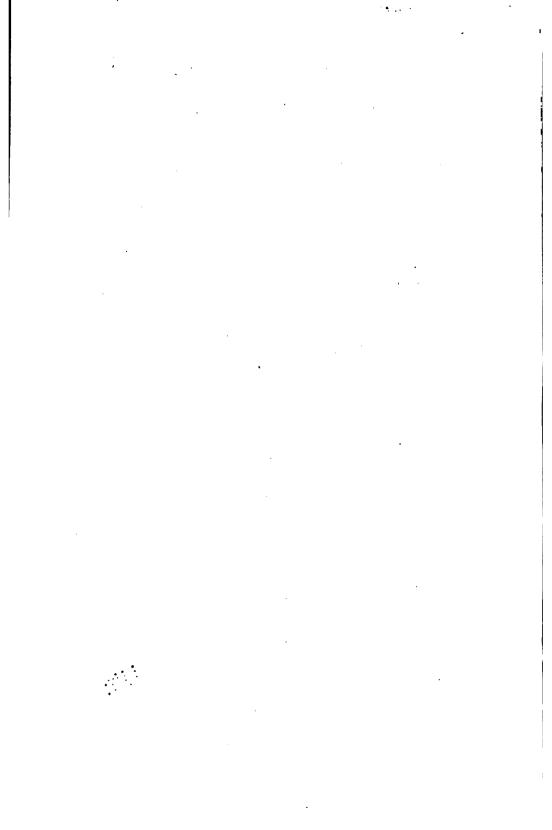
FOR THE YEAR

1896.

PUBLISHED BY THE SECRETARY OF THE COMMONWEALTH.

Vol. XI.

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1897.



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FIFTY-FIFTH REPORT

OF

BIRTHS, MARRIAGES, AND DEATHS

IN THE

COMMONWEALTH;

RETURNS OF LIBELS FOR DIVORCE,

AND RETURNS OF DEATHS INVESTIGATED BY THE

MEDICAL EXAMINERS.

FOR THE YEAR 1896.

PREPARED BY THE

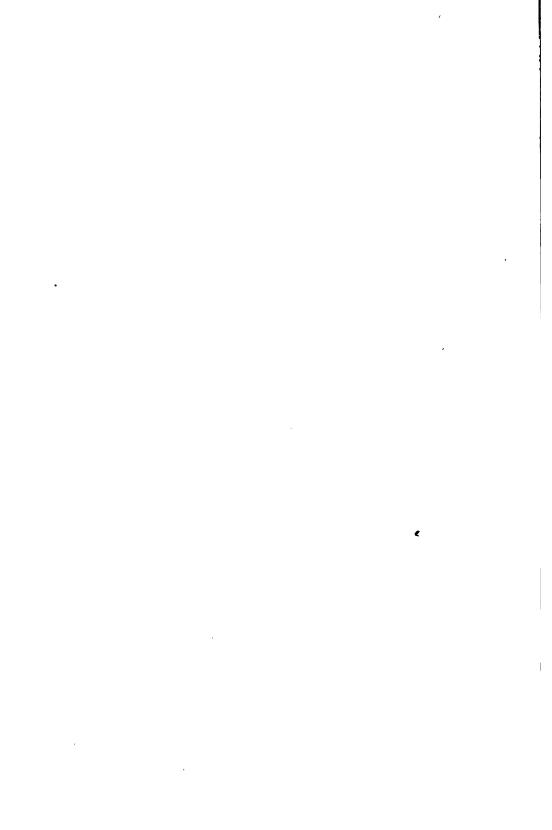
SECRETARY OF THE COMMONWEALTH.

EDITED BY

FRANCIS A. HARRIS, M.D.

BOSTON:

WRIGHT & POTTER PRINTING CO., STATE PRINTERS, 18 Post Office Square. 1897.



Commonwealth of Massachusetts.

OFFICE OF THE SECRETARY, BOSTON, Oct. 28, 1897.

To the Honorable Senate and the House of Representatives.

I have the honor to submit herewith, as required by law, the Fifty-fifth Annual Registration Report, relating to the births, marriages and deaths occurring in Massachusetts and registered in the several cities and towns during the year ending Dec. 31, 1896; and containing, also, the reports relating to libels for divorce in the several counties, and the returns of deaths the causes and manner of which have been investigated by the medical examiners during the year 1896.

The rule adopted in the report of 1891 of restricting the exhibition of tabular results to such as are plainly of practical utility within the meaning of the statute by authority of which the tables are prepared, is continued, and the report is again edited by Francis A. Harris, M.D.

Very respectfully, Your obedient servant,

WM. M. OLIN,
Secretary of the Commonwealth.

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Fifty-fifth

ANNUAL REPORT

OF

BIRTHS, MARRIAGES, AND DEATHS,

REGISTERED IN

MASSACHUSETTS.

FOR THE YEAR ENDING DECEMBER 31, 1896.

Table I. — Population [1895], — Births,

General Abstract, exhibiting, in Connection with the Population Deaths registered in Each County and Town in Massachusetts Children Born, the Nativity of Persons Married, and the Sex, ber who Died.

					:	BIRTH	8.			
THE STATE AND	Population, State Census,	No.		SEX.			I	PARBNTAG	z.	
COUNTIES.	1895.	Whole	м.	F.	Unk.	Am.	For.	Am. Fa. and For. Mo.	For. Fa. and Am. Mo	Unk
MASSACHURETTS, .	2,500,183	72,343	37,186	35,114	43	22,810	34,237	7,792	7,241	263
Barnstable, .	27,654	494	270	224	-	283	110	43	57	1
Berkshire, .	86,292	2,286	1,185	1,100	-	1,148	664	249	226	8
BRISTOL,	219,019	7,280	3,674	3,605	1	1,668	4,197	742	662	11
Dukes,	4,238	66	38	28	-	35	14	11	6	-
Essex,	830,393	8,746	4,497	4,248	1	8,079	3,806	969	857	35
FRANKLIN,	40,145	901	466	485	-	487	290	68	59	. 2
Hampden,	152,938	4,998	2,645	2,351	2	1,548	2,484	504	460	7
Hampshire, .	54,710	1,298	646	651	1	541	484	150	120	3
MIDDLESEX, .	499,217	14,135	7,318	6,802	15	4,373	6,725	1,580	1,408	49
NANTUCKET, .	3,016	61	86	25	-	42	4	10	5	-
Norpolk,	184,819	3,238	1,647	1,584	7	1,281	1,310	852	322	23
PLYMOUTH,	101,498	2,217	1,135	1,080	2	1,101	654	258	194	10
SUFFOLK,	589,799	17,779	9,101	8,668	10	4,336	9,456	1,995	1,912	80
Worcester, .	306,445	8,845	4,528	4,318	4	2,948	4,039	866	953	39

MARRIAGES, AND DEATHS, 1896.

according to the State Census of 1895, the Births, Marriages, and during the year 1896, — distinguishing the Sex and the Parentage of Nativity, and Aggregate and Average Ages by Counties of the Num-

		MAR	RIAGES			DEATHS.								
•			NATIVIT	T.		. 8EX.			NA	TIVIT	Y.	1000 1000 1000 1000	AGE.	
Couples	Am.	For.	Am. Groom.	For. Groom.	Unk.	Persons.	м.	F.	Am.	For.	Unk.	No. whose Ages are registered.	Agg'te.	Av'ge.
23,51	1 0,40 1	7,920	2,832	2,494	4	49,3 81	25,140	24,241	35,88 5	12 ,984	512	49,273	1,680,335	34·10
192	146	14	17	15	- ;	584	800	284	507	64	18	584	28,170	48-24
62 8	303	106	64	65	-	1,547	807	740	1,155	360	82	1,544	5 5, 3 13	85 - 82
2,877	840	1,008	242	291	1	4,985	2,498	2,487	8,630	1,321	84	4,983	140,877	28 · 17
41	25-	4	9	2	1	98	52	46	91	6	1	97	5,231	58-92
2,911	1,847	840	396	328	-	6,295	3,168	3,182	4,751	1,480	64	+6,226	226,043	86-80
308	205	45	27	26	-	642	312	830	5 35	97	10	642	29,699	46-26
1,503	675	580	144	145	-	2,859	1,433	1,426	2,124	706	29	2,856	86,804	30-39
440	253	115	45	36	-	981	471	460	729	198	9	981	38,687	41.55
4,167	1,810	1,426	498	428	-	9,445	4,684	4,761	6,791	2,564	90	9,429	321,425	84.09
15	10	1	8	1	-	84	85	49	79	5	-	84	4,511	58.70
958	450	278	107	106	2	2,230	1,187	1,093	1,707	489	84	2,224	87,414	89.80
790	450	136	. 108	57	-	1,854	961	893	1,511	817	26	1,858	79,5 10	42.91
4,666	2,509	2,583	852	711	-	12,449	6,510	5,939	,	3,987	1	12,447	383,995	30-85
2,678	1,240	830	320	288	-	5,378	2,777	2,601	3,921	1,895	62	5,878	193,156	35-95

[•] Not including 54 lost at sea.

TABLE I. - Births, Marriages, and Deaths,

					:	BIRTH	8.			
COUNTIES AND	Population, State Census,	Mo.		Sex.			1	PARENTAG	B.	
Towns.	1895.	Whole	M.	F.	Unk.	Am.	For.	Am. Fa. and For. Mo.	For. Fa. and Am. Mo.	Unk.
BARNSTABLE, .	27,654	494	270	224	-	288	110	43	57	1
Barnstable, Bourne,	4,055 1,580	59 24	84 12	25 12	=	39 16	4 8	0	10 1	:
Brewster	901	10	6	4	-	6	1	2	1	:
Chatham, Dennis	1,809 2,545	28 80	18 14	15 16	=	26 27	ī	1 1	1	=
Eastham	476	9	16	4	-	8	-	1	-	-
Falmouth,	2,655	59	41 22	18	-	82	15	. 9	8	=
Harwich, Mashpee,	2,582 880	42	2	20	=	81	8	5 2	8	-
Orleans,	1.198	23	18	10	-	22	1	-	-	i -
Provincetown, . Sandwich,	4,555 1,580	180 14	74 6	56 8	:	24 10	71	9	26 1	1
Truro	815	20	12	8	-	7	6	2	5	_
Wellfleet,	968	15	_5	10	-	10	2	-	8	-
Yarmouth,	1,655	25	11	14	-	22	1	-	2	-
BERKSHIRE, .	86,292	2,285	1,186	1,100	-	1,143	664	249	226	8
Adams,	7,887	827	176	151	-	108	162	88	24	-
Alford,	280 888	18	8	10	:	6	1 5	ī	8	=
Obeshire,	1.176	16	ııı	10	-	8	5	2	1	
Clarksburg,	1.009	22	11	11	-	11	6	8	2	=
Dalton,	8,210 886	68 10	88	85 7	=	50 9	9	6	8	-
Florida,	495	7	3	4	-	2	8	1 1 5	1	-
Gt. Barrington,	4,794 511	87 12	50 7	87 5	=	62 11	18	5	7	:
Hinsdale,	1,650	87	21	16	=	19	8	5	5	=
Lanesborough, .	848	14	7	7	-	12	1	1	-	-
Lee, Lenox,	4,066 2,872	84 77	89 43	45 34	=	54 41	18 19	8	9	1
Montarev	464	8	6	2		4	1	8	i	=
Mt. Washington, . New Ashford, .	186 116	8	1	2	-	8	=	-	-	-
New Marlborough,	1.288	12	6	6	=	l ni	_	_	Ī	=
North Adams	19,185	671	882	839	-	279	237	75	78	2
Otis,	518 805	8 8	8	5	=	8 7	_	ī	_	-
Piusheld,	20,461	529	284	245	-	275	132	58	64	=
Richmond,	701	10	6	4	-	5	8	1	1	-
Bavoy,	802 504	5 7	5 8	4	=	5 6	_	=	l ī	:
Savoy, Sheffield,	1,897	25	18	12	-	22	-	. 2	1	-
Stockbridge,	2,077 363	36 8	16 2	20 1	=	23 2	7	5 1	1	=
Tyringham,	423	5	2	8	-	8	2	-	=	-
W. Rtockhridge.	1,257	24	12	12	-	19	2	8		-
Williamstown, Windsor,	4,887 556	188 6	72 8	66 8	=	63 5	85 -	26 1	14	=
BRISTOL,	219,019	7,280	3,674	3,605	1	1,668	4,197	742	662	11
Acushnet,	i 1	24	14	10		19	4	1		_
Attleborough	1,115 8,28 8	211	111	100	-	83	75	83	20	-
Berkley,	955	16	5	11	-	8	7	1		-
Dartmouth, Dighton,	8,107 1,797	58 22	36 15	22 7	-	38 14	19 5	6 2	ī	=
Easton,	4,452	107	53	54	-	48	45	6	8	-
Fairhaven	3,338	77	85	42	-	41	22	8	6	-
Fall River, Freetown,	89,203 1,405	3,874 84	1,688 13	1,686 21	-	491 22	2,189 10	861	842 1	1
Mansfield	1,405 3,722 55,251	73	30	48	-	49	13	. 3	8	_
New Bedford,	55,251	2,127 139	1,095 69	1,031 70	1	414 50	1,834 52	194 28	182 14	8
North Attleboro,'.	6,576	108	œ	10	•	90	92	25	14	_

Registered during the Year 1896 — Continued.

		MAR	RIAGES						1	EAT	H8.			_
	1		NATIVIT				Se	ĸ.	N	TIVIT	y.	whose s are stered.	AG	в.
Couples,	Am.	For.	Am. Groom.	For. Groom.	Unk.	Persons.	M.	F.	Am.	For.	Unk.	No. whose Ages are registered.	Agg'te.	A∀'ge.
192	146	14	17	15	-	584	800	284	507	64	18	584	28,170	48-24
24 15 4 13 15 3 22 29 3	21 11 3 10 14 3 14 26 2 5 18 6 1		82111	. 21 - 8 6		88 27 23 85 56 10 52 54 8 28 101 23 15	41 11 10 16 29 5 88 84 2 14 50 14 6	42 16 18 19 27 5 19 20 1 14 51	78 28 19 30 58 10 49 52 3 25 69 20 12 27	4 1 2 8 8 3 - 1 - 8	2 2 - - 1	-	-	-
84: 11: 2: 2: 10	10	3	2 -	ī -	1111	82 42	18	9 15 24				-	-	
	393	106	64	65	-	1,547	807	740	1,155			1,544	55,818	85-82
1 40 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	33 1 3 3 1 14 3 - 22 1 15 4 22 10 2 2 1 1 1 7 10 3 1 1 1 1 - 8 5 4 4 6 - 2 6 2 7	22 2 8 - 2 11 1 46 19 14	8 1 1 1 1 1 1 1 1 1 1 1	10 		1690 6 6 14 222 177 599 12 28 18 16 10 22 8 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	84 6 8 8 122 133 84 5 1 1 87 7 7 14 5 26 6 6 2 2 - 20 10 11 195 7 7 4 4 2 13 18 18 4 4 4 4 15 4 7 4 4	85 -6 10 10 4 25 7 8 8 14 8 8 24 4 4 176 5 3 3 154 4 4 7 1 1 22 2 6 6 14 4 8 3 3	115 6 8 8 144 144 111 12 122 822 82 82 22 6 6 7 20 7 7 20	77 83 15 11 11 121 -77 188 60 11 -77 83 -11 15 99 -22 99 199	11			
	9 65 8 18 9 16 15 239 5 18 226 41	20 - 1 - 540 1 2 842	242 16 - 2 4 118 - 3 60 9	291 28 1 1 4 4 182 6 82 11	1	4,985 27 183 21 59 22 94 90 2,291 25 55 1,225	2,498 15 67 12 28 11 60 48 1,127 12 20 630 57	2,487 12 66 9 81 11 44 42 1,164 17 85 595 54	25 101 19 54 17 70 76 1,587 25 46 958	1,821 2 30 1 4 4 23 12 746 4 8 264 86	1 1 1 2 8 - 1 8	4,988	140,877	28.17

TABLE I. - Births, Marriages, and Deaths,

					1	BIRTH	8.			
COUNTIES AND	Population, StateCensus,	No.		SEX.			1	PARENTAG	E.	
Towns.	1895.	Whole	M.	F.	Unk.	Am.	For.	Am. Fa. and For. Mo.	For. Fa. and Am. Mo.	Uni
Bristol - Con.										
Torton,	1,614	80	7	28	-	21	5	2	2	-
Raynham,	1,518	17	10	.7	-	111	5	1	-	-
Rehoboth, Beekonk,	1,810 1,465	82 80	18 12	14 18	=	16 19	7 7	5 3	1	
lomerset,	1,988	44	21	28	_	27	11	2	4	
wanzey,	1,627	85	17	18	l -	19	9	7	_	-
unton,	27,115	765	387	378	=	246	856	89	67	7
Westport,	2,678	65	88	27	-	87	22	4	2	-
Dukes,	4,288	66	88	28	-	85	14	11	6	-
hilmark,	804	4	1	3	-	8	-	1	-	-
ottage City,	1,038 1,125	22 17	18	9	-	8 10	9 2	2 4	8	:
ay Head,	169	6	4	2	_	1 6	=	i	:	-
losnold	140	1	1	-	-	1	-	-	-	-
lisbury, West Tisbury,	1,002	- 13	8	5	-	6	2	8	2	ļ -
Vest Tisbury, .	460	3	2	1	-	2	1	-	_	-
Essex,	830,393	8,746	4,497	4,248	1	3,079	3,806	969	857	85
Amesbury,	9,986	221	106	115	-	71	86	27	37	-
andover	6,145	111	58	58	=	44	37	15	14	1
Beverly,	11,806	280	146	134		166	45	41	28	١.
Boxford, Bradford,	727 4,736	12 107	6 57	- 6 50	-	64	27	111	1 5	:
Sradiord, Danvers,	8,181	166	91	75	_	86	42	23	15	:
asex,	1,587	31	17	14	-	19	4	7	i	
łeorgetown, .	2,050	38	21	17	=	81	1	2	4	:
loucester,	28,211	669	366	303		205	816	71	77	
roveland, Iamilton,		39 29	22 15	17 14	_	24 15	8 11	4 2	8	:
lamiiton,		879	449	430	=	319	355	102	102	1 :
pswich,	4,720 52,164	99	50	49	۱ -	41	81	16	10	:
awrence,	52,164	1,780	882	898	l -	269	1,187	.178	151	1 :
ynn,	010	1,680 11	839 9	840 2	1	647	625	195	185	2
ynnfield,	1 074	31	15	16	-	14	1 6	1 7	1 4	:
darblehead, .		129	68	61	-	118	4	و ا	3	
derrimac,	2,301	54	27	27	-	26	17	4	7	:
dethuen	5,690	172	85	87	-	45	93	18	15	1 :
diddleton, .	0.00	13 16	8	5	=	9	1 2	2	1 2	:
Nahant, Newbury,	1 490	21	و ا	12	_	17	3	7	1	1 :
lewburyport,	14,552	329	179	150	-	164	86	42	36	
North Andover,	. 3.569	86	39	47	j -	27	37	16	6	Ι.
eabody,	10.507	281	154	127	-	110	110	35	25	:
Rockport,	5,289	110 32	50 17	60 15	Ξ	39 26	61	4 2	6 4	:
Rowley,	34.478	1,042	560	482	-	304	559	98	81	:
Balisbury,	1.200	26	12	14	_	13	1	6	6	1 .
augus,	4,497 3,259	129	71	58	-	68	34	12	14	
wampscott,	3,259	65	86	29	-	43	8	8	6	
Copsfield,	1,038	7 26	11	.8	-	28	-	2 2	1	:
Wenham, West Newbury,	1,648	25	10	15 15	=	14	1	4	1 3	:
FRANKLIN,	40,145	901	466	485	-	487	290	68	59	١,
Ashfield,	1,018	18	8	5	-	9	2	1	1	١.
Bernardston,	779	6	4	2	-	5	-	-	1	.
Buckland, Charlemont,	1,548 1,041	27 13	15 8	12 10	:	12 10	12	1	2	1:

Registered during the Year 1896 - Continued.

		MARI	RIAGES						D	EATI	18.			
٠		•	Nativit	7,			8=:	ι.	Na	TIVIT	Y.	8 5 g	AG	
Couples.	Am.	For.	Am. Groom.	For. Groom.	Unk.	Persons.	м.	F.	Am.	For.	Unk.	No. whose Ages are registered.	Agg"ta.	Av'ge.
10 8 8 7 12 17 235	9 6 4 7 11 14 108	1 1 - 1 81	1 8 - 2	1 1	1111111	18 81 86 92 41 88 587	7 16 18 12 20	11 15 18 10 21 13 296	18 26 35 19 36 81 412	- 4 1 8 5	1	-	-	-
25	108 22	81 1	26 3	25 -	-	587 60	20 20 291 87	296 23	412 51	168 9	12	=	-	=
41	25	4	9	2	1	98	52	46		6	1	97	5,281	58-92
2 18 12 1 7 6	2 4 8 1 5 5	:	5 2 - 2 -	1	1	9 19 35 3 1 25 6	10 22 1 1 12 1	18 2 - 18 5	8 1	1 8 -	1			-
2,911	1,347	840	396	828	-	6,295	8,163	3,182	1	1 -	64	6,226	226,048	36-30
68 45 102 111 33 42 8 15 204 111 625 630 518 44 8 8 9 2 7 119 24 70 88 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	80 188 60 7 7 222 6 10 88 10 11 168 296 8 30 7 7 19 68 10 10 45 18 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	1 3 81 1	2 4 4 9 18 39 98 98 98 1 7 - 8 8 2 2 2 2 2 4 1	5 7 10 10 1 5 4 1 1 2 17 1 1 37 8 81 77 6 - 8 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		178 101 211 215 215 225 29 441 86 105 1,101 1,129 130 32 107 100 32 107 100 30 32 107 30 30 368 333 368 544 233	844 466 989 155 311 1099 155 255 254 254 466 8 622 461 10 147 77 12 23 12 29 40 40 40 41 48 27 11 6 6 16	94 55 118 100 44 42 187 207 7 271 8 8 1 8 1 3 1 20 47 11 8 8 3 3 12 9 9 2 8 8 8 4 1 1 4 1 8 1 1 8 1 1 1 1 8 1 1 1 8 1 1 1 1	26 587 244 144 455 87 670 870 870 870 9 19 124 28 69 10 26 217 59 149 56 56 50 50 50 50 50 50 50 50 50 50	144 688 2 9 9 1255 6 1 1 1000 1 18 4 421 2499 1 1 3 3 3 3 4 400 1 144 1 155 5 5 5 3 3	11 11 11 11 11 10 10 10 11 11 11 11 11 1			=
308	206	45	27	26	-	642	812	330	585	97	10	642	29,600	46-26
3 12 2 5 13	11 1 5 9	1	1	=	-	20 10 21 11 14	11 4 10 8 10	9 6 11 3 4	17 10 10 11 12	11	=			

^{*} Including 54 lost at sea.

TABLE I. - Births, Marriages, and Deaths,

				•	:	BIRTH	8.			
COUNTIES AND	Population, StateCensus,	No.		SEX.			1	PARENTAG	E.	
Towns.	1895.	Whole	M.	F.	Unk.	Am.	For.	Am. Fa. and For. Mo.	For. Fa. and Am. Mo.	Unk.
Franklin Con.										
Conway,	1,804 8,007	25 58	11 25	14 28	-	17 34	.5	2 6	1 2	-
Erving,	Q64	20	15	5	-	14	11	2	1	_
GIII,	1.082	16	11	5	-	12	1	2	1	-
Greenfield,	6,229	143	75	68	-	91	32	11	9	-
Hawley, Heath,	468 476	6 8	5 4	1	-	5 8	1	_	_	
Leverett,	744	15	8	7	_	15	_	-	-	_
Levden	363	5	2	8	-	2	1		2	-
Monroe,	298	7	- 4	8	-	_5	_1	1		-
Montague, New Salem,	6,058 869	219 15	108 11	111		58 12	133	13 2	18	2
Northfield,	1.851	21	10	11	-	18	8		_	-
Orange	5,361	150	76	74	-	80	52	10	8	-
Rowe,	1 49× 1	8	8	_5	-	.4	2	2	-	=
Shelburne, Shutesbury,	1,560 444	19 18	6	18 9	- 1	18 10	8	2	1 8	-
Sunderland,	696	18	14	4	-	10	5	2	2	_
Warwick	599	15	8	7	-	18	2	-	-	-
Wendell,	529	18	7	6	-	11	2	- 1		-
Whately,	755	11	5	6	-	6	1	1	8	-
Hampden, .	152,988	4,998	2,645	2,851	2	1,548	2,484	504	460	7
Agawam, Blandford,	2,408	69	87	82	-	84	20	4	11	-
Blandford,	849 962	12	7	5	-	9 10	=	2	1	-
Brimfield, Chester,	1,429	19 39	10 22	17	-	24	6	3	8	-
Chicopee	1 18 490 1	644	845	200	-	148	878	54	68	1
E. Longmeadow, . Granville,	1.591	50	29	80	-	12	40	4	8	-
Granville,	1,005 743	25 16	15 11	10	-	15 11	1	1	2 1	-
Hampden, Holland,	199	16	8	5 8		14	1 1	_		-
Holvoke.	40.822	1,678	874	804	-	266	1,089	170	153	-
Longmeadow, Ludlow,	620	14	11	3	-	6	4	2	1	1
Monson,	2,562 8,746	96 70	51 40	45 30	-	28 82	48 24	16 7	4 7	-
Montgomery, .	275	6	4	~	_	4	2		<u>.</u>	_
Palmer,	6,858	212	114	98	-	62	114	20	16	-
Russell,	846	21	10	11	ī	18	4	1	8	=
Southwick, Springfield,	961 51,522	12 1,502	777	724	1	11 601	585	166	148	2
Tolland	309	1,002	'' <u>'</u>		-	i	1 1	100	140	-
Wales,	783	16	14	2	-	9	2	2	8	-
Westfield,	10,668	262	186 107	126 68	-	182 96	90	28 18	11	1
West Springfield, . Wilbraham,	6,125 1,740	175 48	28	20	-	20	48 15	18	17 2	1
HAMPSHIRE, .	54,710	1,298	646	661	1	541	484	150	120	8
Amherst,	4,785	75	88	86	1	51	11	8	8	2
Beichertown, .	2,161 589	40	15	25	-	28 11	10	3	8	ī
Chesterfield, Cummington, .	750	12 18	5	5 18	-	16	1	2	-	=
Easthampton	4,790	110	49	61	-	87	47	90	6	_
Enfield	990	21	12	9	-	8	9	2 2	2	=
Goshen,	804 748	11 12	8	3 9	-	5	3	2	1	-
Granby, Greenwich,	748 481	12	8 2	2	-	3	8 1	-	_	=
Hadley,	1.704	30	12	18	_	23	8	1	8	-
Hatfield	1.262	34	21	13	=	14	14	8	8	
Huntington,	1,450	37	16	21	-	17	10	4	6	-
	386 16,746	411	206	205	=	188	168	60	50	=
Pelham,	486	11	4	200	=	10	1 -	l $\tilde{1}$	_	-
Plainfield,	450	8 5	5	8 5	-	8	:	-	-	-
Prescott,	401									

Registered during the Year 1896 — Continued.

		MAR	BIAGES	3.					I	EAT	HS.			
			NATIVIT	T.			8=	x.	N/	TIVIT	Ŧ.	9 2 7	Agi	B.
Couples	Am.	For.	Am. Groom.	For, Groom.	Unk.	Persons.	M.	F.	Am.	For.	Unk.	No. whose Ages are registered.	Agg'te.	Αν'ge.
15 19 8 68 22 11 11 2 44 7,7 89 4 19 7,7 5,7 7,7	11 14 5 2 46 2 1 1 2 18 8 8 26 3 18 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	11 33 22 14 4 	6 - 1	1 		200 400 160 100 100 110 111 17 5 5 116 23 81 111 25 25 28 13	100 155 7 6 522 8 8 7 7 8 8 2 2 5 1 1 4 8 4 4 6 5 5 8 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	7 15 4 9 8	188 34 12 8 76 10 11 7 4 81 14 21 73 9 23 12	81	1 1 4			
1,508	675	589	-	145	-	9 11 2,859	3 6 1,488		11 2,124	706	-	- 2,856	86,804	80-89
18 4 2 2 8 8 2 2 3 0 6 6 1 1 1 5 5 9 9 9 5 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 4 2 2 6 52 2 2 4 1 1 108 4 10 21 1 7 3000 1 3 8 56 43 8	204 1 8	20 22 1 1 - 58 1 1 1 1 7 1	1		51 19 23 26 388 26 19 14 4 766 60 3 123 5 16 954 4 10 161 1104	24 111 15 183 183 8 4 8 8 364 111 229 1 62 8 10 491	27 8 8 11 206 18 11 10	80	2 97 5 1 2 258 1 10 18	1 14 14 5		-	
440	1			86	-	981	471	1			ĺ	981	88,687	41.50
48 14 10 10 43 43 43 11 10 10 10 10 11 11 12	85 18 10 8 228 5 1 1 7 7 7 1	15	5 1 1 1 1 3 2	8		71 42 8 10 73 21 12 24 14 14 30 10 823 11	5 388 100 6 2 1 1 7 9 14 7	4 5 85 11 6 4 4 - 17 5 16 8 158 7 4	61 17 10	1 12 3 2 1 1 4 4 4 1 1 1 1 8 8 2	1 1 1 2			

TABLE I. - Births, Marriages, and Deaths,

						BIRTH	8.			
COUNTIES AND	Population, State Census,	Ä.		SEX.			I	PARENTAG	z.	
Towns.	1895.	Whole 1	м.	F.	Unk.	Am.	For.	Am. Fa. and For. Mo.	For. Fa. and Am. Mo.	Unk
Hampshire - Con.										
South Hadley, . Southampton, .	4,448 1,054	102 15	57	45	-	30 12	51 8	15	6	-
Ware,	7,651	263	132	180	=	61	148	26	82	_
Westhampton, .	476 1,955	9 43	24	5 19	-	7 28	2 8	3	4	-
Williamsburg, . Worthington, .	648	20	14	19	=	18	ı	-	i	=
Middlesex, .	499,217	14,185	7,318	6,802	15	4,873	6,725	1,580	1,408	49
Acton,	1,978	41	24	17	-	18	7	10	6	-
Arlington,	6,515 804	173 18	91	82 4	_	58 9	71	21 1	23	=
Ashland,	2,090	30	15	15	=	18	6	4	2	-
Ayer,	2,101	58	33	25	-	28	15	10	5	=
Bedford, Belmont,	1,169 2,843	20 78	11 38	9 40	_	7 26	8 89	8 6	2 7	=
Billerica,	2,577	46	20	26		13	20	7	6	=
Boxborough	307	5	8	2	-	4	1 =	-	1	-
Burlington, Cambridge,	574 81,643	2,539	1,295	1,243	1	8 721	1,283	273	2 257	5
Carlisle,	492	2,000	3	3	- :	8	1 1	1	– ~i	
Chelmsford,	8,162	84	44	40	-	35	32	10	7	-
Concord, Dracut,	5,175 2,448	101 49	49 22	52 27	-	39 16	19	10 8	8]
Dunstable,	400	6	2	4	-	4	1	-	1	_
Everett,	18,573	691	342	849	-	237	292	76	85	1
Framingham, Groton,	9,512 2 192	238 47	128 20	109 27	1 -	101 30	78 4	30 8	26 4	8 1
Holliston,	2,192 2,718	4i	20	21	-	26	6	4	4	î
Hopkinton,	2,984	37	25	12		30	1	2	4	-
Hudson, Lexington,	5,308 3,498	113 76	53 48	60 33	=	55 30	33 25	14 10	11 11	=
Lincoln,	1,111 1,136	iš	4	9	-	3	7	ı	2	_
Littleton.	1,186	15	6	9	-	. 7	5		8	-
Lowell,	84,367 29,708	2,764 864	1,412 460	1,351 400	1 4	451 260	1,826 406	248 107	283 79	6 12
Marlborough,	14,977	880	191	189	-	151	124	42	63	==
Maynard,	8,090	102	52	50	-	32	44	16	10	2
Medford,	14,474 11,965	413 297	218 144	195 151	- 2	172 120	160 96	38 38	41 28	15
Natick,	8,814	162	84	78	-	96	29	15	22	-
Newton,	27,590	779	395	388	1	220	395	103	60	1
North Reading, Pepperell,	835 3,321	18 71	9 33	9 87	ī	10 26	4 25	11	9	_
Reading	4,717	113	58	55	-	57	89	10	7	-
Sherborn!	1,446	42	26	16	-	. 8	18	6	15	-
Shirley,	1,399 52,200	34 1,540	19 811	15 729	=	13 529	14 686	6 182	1 143	=
Stoneham,	6,284	141	79	62	-	77	39	18	12	-
Stow,	920	20	11	9	_	9 10	5	8	3	-
Sudbury, Tewksbury,	1,141 8,879	15 61	5 28	10 3 3	_	15	2 31	3 5	10	-
(State Almshouse),	· - ii	115	63	52	-	20	45	38	11	1
Townsend	1,780	26	14	12 7	-	19	3	3	1	-
Tyngsborough, Wakefield, .	635 8,304	12 237	5 125	112	-	75	110	1 28	1 24	_
Waltham,	20,876	489	276	213	- 1	150	282	59	48	=
Watertown,	7,788	169	93	72	4	70	74	11	14	-
Wayland,	2,026 2,418	28 51	15 25	18 26	=	7 14	6 18	5 12	10 7	-
Weston,	1.710	27	8	19		16	6	2	8	=
Wilmington, .	1,420	36	24	12	-	13	17	4 22	2	-
Winchester, Woburn,	6,150 14,178	158 445	94 237	64 208		54 149	67 207	22 40	14 49	1
	22,210								-	
NANTUCKET, .	3,016	61	36	25	_	42	4	10	5	_

Registered during the Year 1896 — Continued.

			sey isi	ereu u	urin	y ine	1 eu	T 10	30 –	- 00	110111	uea.		
		MAR	RIAGES	.					I	DEAT	H8.			
اند			Nativit	TY.			8E	x.	N	TIVIT	Y.	whose is are stered.	AGI	ı.
Couples	Am.	For.	Am. Groom.	For. Groom.	Unk.	Persons.	м.	F.	Am.	For.	Unk.	No. whose Ages are registered.	Agg'te.	Av'ge.
26 4 74 8 10 6	15 4 11 1 8 6	87 1	13	2 13 1	111111	68 11 140 4 81 9	28 6 78 3 17	40 5 62 1 14 6	45 10 101 4 22	39 - 9	2	-	-	-
4,157	1,810	1,420	498	423	-	9,445	4,684	4,761	6,791	2,564	90	9,429	821,425	84 · 09
8 633 12 117 17 66 8 6 6 8 6 8 8 7 88 8 7 88 8 7 88 8 7 8 8 8 7 8 8 8 7 8	111 133 225 5 2 2 278 17 15 5 2 2 6 6 84 44 9 9 111 8 2 5 5 129 5 2 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	2844 -75-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5	3 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 7 7 2 1 1 1 1 - 1 1 7 9 - 1 1 1 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		26 119 19 19 25 25 50 51 1,668 9 49 600 266 44 51 1,922 246 246 246 246 1,922 246 265 119 246 600 246 246 246 246 246 246 246 246 246 246	188 552 77 211 14 18 18 18 18 18 18 18 18 18 18 18 18 18	8300 1227 277 277 277 200 100 100 100 100 100 100 100	281 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	100 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 - 1 - 2 - 1 - 2 - 2 - 2 - 1 1 1 2 8 - 1 1 1 1 2 2 1 7 1 1 1 2 2 1 7 1 1 1 2 2 1 7 1 1 2 2 5 1			
84 112	14 51	9 24	16	21	=	90 254	46 126	44	65 199	25 65	1 -	:	=	-
15	10	1	. 8	1	-	84	35	49	79	5	-	84	4,511	53.70

TABLE I. - Births, Marriages, and Deaths,

		1				BIRTI	18.			
COUNTIES AND	Population, State Census.			SEX.				Parryta	GE.	
Towns.	1895.	Whole 1	м.	F.	Unk.	Am.	For.	Am. Fa. and For. Mo.	and	Unk
Norpole, .	184,819	3,238	1,647	1,584	7	1,281	1,810	352	822	23
Avon,	1,626	82	17	15	-	26	2	2	1	1
Bellingham, Braintree,	1,481 5,311 16,164	21 181	8 74	13 57	=	80	46	13	12	-
Brookline	16,164	875	185	190		128	184	87	26	-
Canton,	4,636	122	56	65	1	52	40	10	20	-
Cohasset,	2,474	168	20 78	21 90	-	18	59	11	. 3	-
Dedham, Dover,	7,211 668	108	18	90	=	74	2	24	11	-
foxborough	8,219	46	27	19	_	27	8	6	ĥ	_
Franklin,	5,136 2,298	130	67	62	1	48	87	24	21	-
Holbrook,	2,298	54 825	24	30	-	85	100	5	6	2
Hyde Park, Medfield,	11,826 1,872	33	156 13	169 20	=	112 19	128	52 2	38 5	-
Kedway	2,913	31	18	18	_	18	4	6	3	-
Muus,	1,006	18	9	9	- 1	8	8	6	1	-
Milton, Needham,	5,518 8,511	105 93	56 46	49 47	-	45 28	88 41	10 12	12 12	:
Norfolk	882	19	8	l ii	_	20	10	3	12	_
Norwood	4,574	155	77	78	-	44	80	10	20	1
Quincy,	20,712	718	887	826	-	169	422	58	63	1
Andolph,	3,694 1,717	68 25	82	27 16	4	39 8	12	5	7	_
toughton	5,272	184	66	68		58	84	11	14	17
Walpole, Wellcaley,	2,994	71	88	88	-	20	30	6	15	-
Wellesley,	4,229	69	84 126	85 96	ī	23 129	85 60	8	.3	ī
Weymouth, Wrentham,	11,291 2,584	223 33	120	21	-	24	7	19 1	14	-
PLYMOUTH, Abington, Bridgewater, Brockton, Darver, Duxbury, E. Bridgewater, Halfax, Hanover, Hanson, Hingham, Hull, Kingston, Lakeville, darshfield, dattapoisett, diddleborough, Vorwell, Pumbroke, Plymouth, Plympton, Cochester, Cockland, Leituate, West Bridgewater, West Bridgewater,	101,408 4,207 4,686 38,166 1,016 1,966 2,984 4,97 2,051 1,380 4,819 1,044 1,746 870 759 1,760 1,082 6,689 1,640 1,223 7,957 5,49 1,021 5,523 2,246 8,887 1,747	2,217 98 899 888 200 256 59 91 818 283 17 112 231 187 200 1011 47 104 26	1,185 56 41 402 10 12 27 8 19 14 46 12 12 5 60 98 13 98 1 10 55 22 57	1,080 42 48 426 10 14 82 6 18 47 16 5 8 7 6 6 54 12 10 89 4 10 46 25 47	1	1,101 68 54 355 14 12 36 2 2 17 17 40 9 10 15 16 16 16 18 9 1 1 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	12 17 848 1 6 18 5 5 4 25 8 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	258 9 89 109 1 5 6 1 1 5 6 1 1 4 4 2 2 1 1 1 4 2 2 2 2 2 1 1 1 7 7 5 5 6	194 8 100 71 4 3 5 5 1 1 5 8 8 1 1 2 2 8 1 1 3 1 4 1 2 100 9 8	10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Suffolk,	5,744 539,799	121	9,101	8,068	10	77 4,836	18 9,456	1,995	1,912	80
Boston,	496,920 31,264	16,477	8,430 518	8,037 505	10	3,996 239	8,780 576	1,843 111	1,784 91	74 6
Revere,	7,423	, 205	115	90	-	68	80	28	29	-
Winthrop,	4,192	74	88	86	- 1	83	20	18	8	_

Registered during the Year 1896 - Continued.

Marriages.						1	EAT	H8.			
. NATIVITY.				8 E	x.	NA	TIVIT	Y.	whose s are stered.	Ag	 6.
Am. For. Groom. Groot	m.	Jnk.	Persons.	M.	F.	Am.	For.	Unk.	No. whose Ages are registered.	Agg'te.	A∀'ge.
952 459 278 107 1	06	2	2,230	1,187	1,098	1,707	489	84	2,234	87,414	39 · 3 0
8 6 1 1	=	=	82 20	19 8	13 12	26 15 79	6 5	=		-	-
28 16 6 3 16 16 16 16 16 16 16 16 16 16 16 16 16	22	1	98 200	8 60 98 46 20 60 7 27 85 15 100 40	88 107	147	5 12 50 81	2 8		-	
26 10 12 1 17 8 2 5 44 22 9 8	3 2 5	=	88 85 118	46 20	42 15	55 27	81 8 88	2		-	=
1 - 1 -	5	=	118 16	60 7	58	27 79 11	38 5 9	1		-	:
24 16 2 5 8 8 24 7 2 14 10 - 2 94 44 27 14 13 7 1 3 120 12 5 1 11 5 1 3 22 11 7 2 2	8	=	16 58 76	27 85	26 41	43 58 87 148	9 14	1			-
14 10 - 2 94 44 27 14	2	=	106	15 100	41 25 96 27 22	87 148	1 46	2 2		•	-
18 7 1 8 20 12 5 1	2 2	=	67 58	40 86	27 22	45 47 16	19 10	8	=		=
13 7 1 3 20 12 5 1 1 1 5 1 3 22 11 7 2 33 16 7 7 4 3 - 1	-16292223	=	18 65 52	9 83 25 9 81 175 88 20 70 29 24 90	9 83 27	16 52	14 46 19 10 11 22 1 17 77	4 2 2 8 1 1 2		-	-
88 16 7 7 4 3 - 1 40 16 16 2 2 157 52 75 18 18 16 15 1 - 1 6 4 - 1 24 13 2 7 26 23 3 1	8	=1	52 18	25 9	27 9	52 80 17 51 261 62 41 90 51	22 1	-		-	=
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16 15 1 -	ī	=	79 47	88 20	41 27	62 41	17 8	8		-	-
24 13 2 7 25 23 3 1	121492		47 118 67	70 29	27 48 88 25 88 21	90 51	28 15	. 5 1		-	-
24 13 2 7 25 23 3 1 20 9 4 8 88 61 8 5 13 9 1 1	4	-	49 178	24 90	25 88	150	14 28	-	. :	-	-
12 9 1 1	2	-	40	19	21	84	6	-		-	-
790 489 186 10-8	57	-	1,854	961	898	1,511	817	26	1,858	79,510	42-91
40 34 2 1	8	1 1									
60: 34. Z1 60 L	7	-	71	40 84	81 85	58	18	-	-	_	-
28 14 5 8 819 171 80 5-4	1 14	-	71 119 614	40 84 296	81 85 818	68 495	18 51 118	6	-		-
28 14 5 3 819 171 80 54 9 7 2 — 8 7 —	14	-	25	40 84 296 11 82	81 85 818 14 12	68 495 22 41	18 51 118 8 8	6	1111	-	-
23 14 5 3 319 171 90 54 9 7 2 8 7 - 1 17: 11 2 2 3 3 3 -	14		25 44 50	40 84 296 11 82 24	31 35 318 14 12 26 3	68 495 22 41 44 6	8	6	11111		-
23, 14, 5, 25, 29, 171, 90, 54, 9, 7, 2, 18, 17, 11, 2, 2, 3, 8, -, -, 22, 14, 2, 3, 3, -, -, 22, 14, 2, 3, 3, -, -, 22, 14, 2, 3, 3, -, -, 22, 14, 2, 3, 3, -, -, 22, 14, 2, 3, 3, -, -, 22, 24, 24, 24, 25, 24, 24, 24, 24, 24, 24, 24, 24, 24, 24	1 14 - 2 - 8		25 44 50 6 24 26	40 84 296 11 82 24 3 18 16	31 35 318 14 12 26 3 11	68 495 22 41 44 6	8	6			-
23 14 5 33 319 171 90 5-4 9 7 2 - 8 7 - 11 11 2 -2 3: 8 - 21 14 2 -3 44 23 5 9 11 7 2 1	1 14 - 2 - 8		25 44 50 6 24 26 101	40 84 296 11 82 24 3 18 16 51	31 35 318 14 12 26 3 11 10 50	68 495 22 41 44 6	8 6 4 1 21	6 8 -			-
23 14 5 3 319 171 50 54 9 7 2 1 8 7 2 1 17 11 2 2 3 3 2 2 2 14 2 3 5 11 7 2 1 12 6 1 3 2 2 2 2 2	1 14 - 2 - 8 - 7 1 2		25 44 50 6 24 26 101 26 17	40 296 11 82 24 3 18 16 51 17 11	81 85 818 14 12 26 8 11 10 50 9 6	68 495 22 41 44 6	8 6 4 1 21	6 - 7 - 1 - 1 8 - 12			-
23, 14, 5, 3, 5, 19, 17, 19, 54, 19, 7, 2, 11, 11, 2, 2, 3, 8, 2, 14, 23, 5, 11, 17, 11, 12, 2, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	1 14 - 2 - 8 - 7 1 2 - 2 1		25 44 50 6 24 26 101 20 17	40 84 296 11 82 24 3 18 16 51 17 11 8 9	81 85 818 14 12 26 8 11 10 50 6 11 10	68 495 22 41 44 6 20 25 77 21 16 17 26	8	8 - 2 - 2			-
23, 14, 5, 3, 5, 19, 171, 90, 54, 9, 7, 2, 11, 11, 2, 2, 3, 8, -, 22, 14, 5, 17, 17, 11, 12, 5, 11, 12, 5, 3, 14, 10, -, 2, 14, 10, 10, 10, 10, 10, 10, 10,	1 14 - 2 - 8 - 7 1 2 - 2 1		25 444 50 6 24 26 101 26 17 19 19 27 24	40 84 296 11 82 24 3 13 16 51 17 11 18 9 18 12 54	31 35 318 14 12 26 3 11 10 50 6 11 10 14 12 58	68 495 22 41 44 6 20 25 77 21 16 17 26	33 6 4 1 21 21 1 1 16	8 - 2 - 1 5			
23 14 5 3 54 5 54 5 5 5 5 5 5	1 14 - 2 - 8 - 7 1 2 - 2 - 2 - 2 - 1 1 1 1 1		244 500 6 24 26 101 26 17 19 19 27 24 107 26 26	40 84 296 11 82 24 3 18 16 51 17 11 8 9 18 12 54 18	31 35 318 14 12 26 3 11 10 50 6 11 10 14 12 58 18 19	68 495 22 41 44 6 20 25 77 21 16 17 26	33 6 4 1 21 21 1 1 16	8 - 2 - 1 5			
23, 14, 5, 54, 9, 7, 2, 11, 11, 2, 3, 3, 14, 2, 2, 2, 14, 15, 17, 11, 17, 12, 12, 12, 14, 10, 11, 17, 12, 12, 12, 14, 10, 11, 17, 12, 13, 14, 10, 14, 10, 14, 10, 14, 10, 14, 10, 14, 10, 14, 10, 14, 10, 14, 10, 14, 10, 14, 10, 14, 10, 14, 10, 14, 10, 14, 10, 14, 10, 14, 10, 14, 10, 14, 10, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	14 2 8 71 2 2 1 1 1 1 6		244 446 266 244 268 101 177 199 27 24 107 366 266 146	74 6	72	68 495 222 411 44 6 20 25 77 11 16 12 28 86 84 122 9	33 6 4 1 21 21 1 1 16	8 - 2 - 1 5 - 6			
23	14 - 2 - 8 - 7 1 2 - 2 1 1 1 1 6		25- 444 26- 244 261 101 125- 177 24 107 26- 146- 100 19- 100	74 6	72 4 7 32	68 495 222 411 6 20 25 77 21 16 17 26 23 86 24 24 122 9 15	886 - 4 11 21 10 10 12 18 12 17	6 8 2 15 6 - 2 -			
23, 14, 5, 54, 7, 2, 11, 11, 2, 3, 8, 7, 14, 15, 11, 12, 12, 14, 10, 12, 14, 10, 12, 14, 10, 12, 14, 10, 12, 14, 10, 12, 14, 10, 12, 14, 10, 12, 14, 10, 12, 14, 10, 12, 14, 10, 12, 14, 10, 12, 14, 10, 12, 14, 10, 12, 14, 10, 12, 14, 10, 12, 14, 10, 12, 14, 10, 12, 14, 10, 12, 14, 15, 15, 15, 16, 15, 16, 17, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18	14 2 8 71 2 2 1 1 1 1 6		25-44-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-	74 6	72 4 7 32 29 89	68 495 222 41 44 6 20 25 77 21 10 26 23 86 34 24 122 9 15 47 47	886 - 4 11 21 10 10 12 18 12 17	8			
319 171 90 54 1 1 1 1 1 2 2 1 1 1 1 2 2 2 3 1 4 2 5 1 1 1 1 1 1 2 2 2 1 4 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14 - 2 - 8 - 7 1 2 - 2 1 1 1 1 6		25- 444 26- 244 261 101 125- 177 24 107 26- 146- 100 19- 100	40 84 296 11 82 24 3 18 10 51 11 8 9 18 12 18 17 6 6 12 25 32 25 32 44 47	72 4 7 32	68 495 222 41 44 6 20 25 77 21 16 17 26 23 86 24 24 122 9 15	33 6 4 1 21 21 1 1 16	6 8 2 15 6 - 2 -			
221 14 5 5 54 7 2 1 1 1 2 2 3 1 1 1 1 1 2 2 3 1 1 1 1 1	14 - 2 - 8 - 7 1 2 - 2 1 1 1 1 6 8 2 8 - 8 - 8 2 8 - 8 2 8 - 8 2 8 3 - 8 2 8 2 8 3 - 8 2 8 2 8 3 - 8 2 8 2 8 3 - 8 2 8 2 8 3 - 8 2 8 2 8 3 - 8 2 8 2 8 2 8 3 - 8 2 8 2 8 2 8 2 8 2 8 2 8 2 8 2 8 2 8		25 44 50 6 24 101 25 19 19 27 36 24 107 36 146 10 19 37 38 36 46 10 13 13 13 14 15 16 17 18 19 19 19 19 10 10 10 10 10 10 10 10 10 10	74 6	72 4 7 32 29 89 18	68 495 222 41 44 6 20 25 77 21 10 26 23 86 34 24 122 9 15 47 47	386-41 215-1-21-162-2181-27-98-5	8	12,447		30-85
42 33 2 3 8,655 2,509 2,5683 852	14 		254 444 26 26 101 27 19 27 27 36 26 146 10 19 64 54 71 32 77	74 6 12 32 25 32 14 47 6,510	72 4 7 32 29 39 18 30	68 495 495 495 495 495 495 495 495 495 495	8 8 6 - 4 4 1 21 5 1 - 22 1 1 - 22 2 2 18 1 1 2 2 17 9 8 8 5 18 3,987	- 6			30-85
42 88 2 8	14 		25 44 44 26 26 101 27 19 27 107 36 146 10 10 10 10 10 10 10 10 10 10 10 10 10	74 6 12 32 25 32 14 47	72 4 7 32 29 89 18 30	688 4952 411 444 6 800 255 777 216 117 127 228 800 344 747 455 622 77 64	8 8 6 - 4 4 1 2 1 1 - 16 2 2 1 1 2 2 1 7 9 8 5 18 5 18	8		383,096	-

^{*} Five hundred and seventy-three were residents of other places.

TABLE I. - Births, Marriages, and Deaths,

•						BIRTI	18.			
COUNTIES AND	Population, StateCensus,	No.		Sex.			1	PARBUTAG	E.	
Towns.	1895.	Whole	М.	F.	Unk.	Am.	For.	Am. Fa. and For. Mo.	For, Fa. and Am. Mo.	Unl
WORCESTER, .	806,445	8,845	4,528	4,318	4	2,948	4,039	866	953	39
Ashburnham, .	2,148	42	24	18	_	17	16	4	. 5	_
Athol,	7,864	115	56	59	-	66	28	18	. 8	
Auburn,	1,598 2,278	88 80	27 16	11	-	18	15	6	4	
Berlin,	897	23	10	14 10	-	17 18	8	6 3	2	
Slackstone	6,039	180	80	100		49	100	14	17	
Bolton,	797	8	5	8	-	5	-	1 2	i	
Boylston,	729	21	11	10	-	10	8	6	2	١.
Brookfield,	8,279	75 35	39	86	-	35	24	8	7	:
Clinton,	1,877 11,497	848	17 177	18 171	_	25 80	190	1	4	!
Dane	717	16	10	1/1	<u>-</u>	10	190	44	34 1	٠
Douglas, Dudley,	2,026	56	24	82	_	22	20	1 5	9	
	3,203	96	46	50	-	23	58	8	12	
itchburg,	26,409	916	439	477	-	239	489	98	88	: ا
Fardner,	9,182	286	164	132	-	75	144	29	38	
Hardwick,	5,101 2,655	148 79	67 86	76 43	-	45 21	59	19	20	
Harvard.	1,162	is	90	1 3	_	11	82	9	14 2	
Holden,	2,602	60	82	28	_	21	28	6	5	
Hopedale,	1.377	24	12	12	_	15	4	Š	2	
Iubbardston, .	1,274	22	18	9	-	13	2	4	8	
ancaster,	2,180 8,239	57	32	25	-	27	16	6	7	į :
Leominater,	9,211	75 218	34 94	41 124	-	88	28	18	6	
unenburg,	1,237	210	13	124	-	94 12	72	23 3	28	
Lendon,	889	16	7	ğ	_ :	18	3	l :	2	
filford,	8,959	257	118	187	2	111	82	17	22	2
fillbury, New Braintree,	5,222	140	75	65	- 1	49	50	16	25	Ι.
North Brookfield,	542 4,685	110	.5	1	-	_2	8	1	-	,
Vorthborough,	1,940	119 48	54 18	66 80	-	57 21	82 15	12 8	18	
Vorthbridge.	5,286	199	113	86	-	42	117	18	4 22	
akham,	606	4	2	2	-	3		10	1	
xford,	2,390	43	19	24	-	18	15	2	8	
Paxton,	426	_4	1	8	-	4	-	-	-	
>L1111	952 460	15 6	6	9	-	10	2	1	2	
Princeton,	952	19	8	11	_	6 10	1	- 8	- 2	
loyalston,	890	14	5	8	ī	10	li	8	2	
Rutland,	978	20	10	10	-	12	:	4	î	
hrewsbury, .	1,524	24	14	10	-	16	4	8	ī	١.
Southborough, .	2,223	57	28	29	-	19	80	3	5	
lm -mm	8,250	287 199	160 92	127	-	83	181	20	53	
spencer,	7,614 1,218	28	16	107 12	-	94 19	56	13	36 2	
turbridge	1,910	57	26	31		27	15		8	
utton, .	3,420	98	42	56	-	25	45	15	13	
Cempleton,	2,915	61	28	33	-	38	10	8	5	
Ipton,	2,150	22	12	9	1	16	4	1	1	
Jabridge, Warren,	8,546 4,430	115	67	48	-	41	49	12	13	
Webster,	7,799	119 325	55 168	64 157	-	41 46	47 245	16	15	ì
Vest Boylston, .	2,968	98	51	47		20	47	18 18	19 18	
Vest Brookfield, .	1,467	12	10	2	_	20	71	10 2	10	
Westborough, .	5,235	107	64	43	-	56	23	16	12	
Westminster, .	1,815	22	14	8	-	18	2	4	3	
Winchendon, Worcester,	4,490	124	61	68	-	49	46	16	18	
TOIGEBUEF,	98,767	8,180	1,697	1,483		979	1,619	274	806	i

1896.] BIRTHS, MARRIAGES, AND DEATHS.

Registered during the Year 1896 — Concluded.

		MAR	RIAGES	J.					I	EAT	н8.			
			NATIVIT	T.		•	82	х	N/	TIVIT	Y.	whose s are stered.	AG	E.
Couples.	Am.	For.	Am. Groom.	For. Groom.	Unk.	Persons.	M.	F.	Am.	For.	Unk.	No. whose Ages are registered.	Agg'te.	A∀'ge
2,678	1,240	830	320	288	-	5,378	2,777	2,601	8,921	1,895	62	5,378	193,156	85-9
12 69	11 43	9	- 8	1 9	-	26 80	17 3 8	9 42	22 69	4 11	-	-	-	
5 14	43 8 10	2		1 1	-	24 43	18 24	6 19	19 36	5 7 1	-	-	_	
14 40	9		4	ļį	-	9	4	5	7	i	1 1 - 1 6 8 1	-	_	
40 5 7	14 5	16		4	_	117 10	63 3	54 7 8 24 17	67 8	49 2	1 -	-		
7 2 7	al	1 8	- 8	5	-	10 11 57	8 83	8		2 2 14	1	-	-	
61	16 8 87	_	8	-		83	16	17	87 28 112	2	8]	_	1
97	37 5	86	18	6	-	174 11	86 4	88 7	112 10	61 1 12 16	1	_		1
24 10 279 104 47 28	4	11	2	1 7	-	46	27 17	7 19	10 88	12	1 1 8	-	-	ł
279	100	120	84	1 25	=	39 456	282	224	22 841 117	1112	8	_	_	
104	89 98	46 10	14	5 10	-	147 78	70 87	22 224 77 41 17	117 59	30 19	=	_	-	
28	12	12	2	2	-	33	16	17	59 22 17	11	-	-	-	
1 22	าน	5	2	1	-	22 36 19	16 14 16 11 10	20	. 80	8 6 1 4 10	2	_		
8	7	-	1	ī		19	11	8	18 17	1	-	-	<u> </u>	
21	17	-	=	1 4	-	21 35	19	16	25 37	10	=	-		
8 9 21 32 68 10	100 89 28 12 11 7 8 17 20 8 148 22	5 - - 2 13	7	8 10		60 157	28 70	8 20 8 11 16 82 87	129	28 27	ī		_	1
10	8	-	1	1	-	21 18	14 10	7 8	21 14	4	-	-	<u>-</u>	1
2 79	48	21	5	5	- 1	148	74 45	74 47	108	44	1	-	_	
41	22 2	3	10	6	-	92	45 4	47	68 8	24	l ī	-	-	
41 2 28 13	2 16	21 3 - 8 3 20	5 8	4 1 8	-	70 86	88 22	5 82 14	8 57 25	12	1 1 1	-		
58	6 21	20	9		-	139	70	1 69	98	10 41 2 5 - 5	=	_	-	
14	10 1 1 2 6	-	2	2	_	11 84	7 18	4 16	9 28	2 5	- -	-	_	1
1	1	-]	-	-	5 24	. 4 17	1 7	5 19		-	-	<u>-</u>	
2	2	=	=	=	-	13	10	8	12	i	=	_	_	1
8) 3i	64 31	1	1 -	:	-	18 26	7 15	6 11	9 24	1	- - 1	_		
6	6	-	-	-	-	8 25	4 12	4 18	8 20	-		-	-	İ
1 2 8 3 6 7 11 77 58 2	6	1 3 19 9	ī	1 16	-	45	95	20	83	11	1 1 1	_	-	
77 ₁	33 32 2 9	19	9	16 4	-	158 98	83 47 18	20 70 51 10	99 71	KQ	1	_		
2	2	-	=	-	-	28	18	10	71 25 87	3	=	-	-	1
16	8	1 1 2	2	2 5	-	40 65	23 32	17 33 19	49	18	1 8 2	:	_	i
20 ₁	12	2	8	8	-	89 40	20 22	19 18	31 81	6 8 16	2	-	-	
30	9 22 17		ī	ī	=	85	40	45	69	16	=	-	-	
41 207	17 24	14 54 8 1 1 1	10	19	-	126	25 78	85 53	48 83	12 41	2			
27 11 88	24 8	8	7	4	-	63	78 85	53 18 14	43 25 97	10	-	-		
88	9 21	i	8	8	-	28 126	14 61	85	25 97	29	:	=	` =	
6. 39 948	15	1 10	1 8	6	-	15 72	8 41	7 31	13 57	29 29 14	ī	-	_	1
948	408	868	96	91	-	1,869	958	911	1,292	555		-	_	ì

Table II. — Births. — 1896.

Distinguishing by Counties, by Months, and by Sex, the Registered Number of Children BORN ALIVE during the Year.

			-	-			_		_			_				_
Year and Months.	SEX.	STATE.	Barnstable.	Berkshire.	Bristol.	Dukes.	Essex.	Franklin.	Hampden.	Hampshire.	Middlesex.	Nantucket.	Norfolk.	Plymouth.	Suffolk.	Worcester.
) نہ	Tot.	72,343	494	2,285	7,280	66	8,746	901	4,998	1,298	14,135	61	3,238	2,217	17,779	8,845
YEAR.	Ma.	37,186	270	1,185	3,674	38	4,497	466	2,645	646	7,318	36	1,647	1,135	9,101	4,528
THE	Fe.	35,114	224	1,100	3,605	28	4,248	435	2 ,3 51	651	6,802	25	1,584	1,080	8,668	4,313
fi (Unk.	43	_	-	1	-	1	-	2	1	15	-	7	2	10	4
Jan.	Tot Ma. Fe Unk.	5,852 2,996 2,854 2	36 21 15	188 107 81	588 295 293 -	5 1 4 -	671 338 333 -	70 32 38	348 177 171	84 34 50	1,151 586 565 -	3 1 2 -	240 122 117 1	183 95 88	1,491 787 703 1	794 400 394 -
$\mathbf{Feb.}$	Tot. Ma. Fe. Unk.	5,543 2,849 2,690	43 27 16	97	256	4 1 3	317	84 47 37	404 207 197	88 85 52 1	1,064 562 501 1	6 3 3	270 140 130	173 82 91		372
March.	Tot. Ma. Fe. Unk.	6,016 3,086 2,926 4	47 25 22	199 98 101	321	5 3 2	743 874 369	82 38 44 -	431 230 201 -	117 60 57	1,195 651 548 1	5	256 122 133 1	179 91 88	1,406 702 7 0 3 1	366
April.	Tot. Ma. Fe. Unk.	5,902 2,992 2,907 3	41 19 22	86		8 4 4 -	374	65 38 27 -	387 199 188 -	133 64 69	1,152 586 565 1	2	279 145 184 -	200 102 97	700	389
May.		5,952 3,077 2,869	41 20 21		334	5 4 1 -	396	38		94 44 50		2	254 119 134	93 81	689	406 330
June.	Tot. Ma. Fe. Unk	5,840 2,947 2,889 4	37 19 18	104	277	3	384	33	222	54		1 6	253 143 109 1	92 94		343
July.	Tot. Ma. Fe. Unk	3,263 2,964	19 11	104	301	6	398	40	235	56		4	163	111		391 384
(Ma. Fe. Unk Tot. Ma. Fe.	2,947 2,889 4 6,229 3,263 2,964	19 18 - 30 19 11	104 91 - 187 104	277 283 1 642 301	3 3 - 7 6	384 349 760 398	33 37 - 68 40	222 222 450 235	54 47 	577 566 2 1,195 624	1 6 - 5 4	143 109 1 289 163	92 94 207 111	1,506 811 694	

TABLE II. — Concluded.

Year and Months.	SEX.	BTATE	Barnstable.	Berkshire.	Bristol.	Dukes.	Rasex.	Franklin.	Hampden.	Hampshire.	Middlesex.	Nantucket.	Norfolk.	Plymouth.	Buffolk.	Worcester.
Aug.	Tot. Ma. Fe. Unk	6,551 3, 3 77 3,172 2	48 26 22	211 107 104	666 337 329	5 3 2	812 431 381	79 50 29		124 61 63	1,284 670 612 2	5 3 2	302 140 162	186 84 102		421
Sept.	Tot. Ma. Fe. Unk.	6,206 3,245 2,955 6	27	98	684 857 277	6 4 2 -	738 387 351 -	69 34 35	201	109 66 43	1,210 636 572 2		291 186 153 2	205 108 97		368
) Set	Tot. Ma. Fe. Unk.	6,123 3,194 2,926 3	22		303	6	760 415 345 -	83 43 40	230	129 65 64 -	1,171 619 551 1	7 5 2 -	268 136 131 1	178 96 82		728 354 373 1
Nov.	Tot. Ma. Fe. Unk.	5,943 3,018 2,921 4	35 20 15 -	92	2 89	2 1 1 -	696 348 348	70 40 30	221	106 57 49	1,179 597 579 3	4		84		705 343 361 1
Dec.	Tot. Ma. Fe. Unk.	6,176 3,138 3,036 2	25	86	324		690 335 354 1	80 33 47	234	105 50 55 -		-	257 128 129			375
	Tot Ma. Fe. Unk.	10 4 5 1		- -	- - -	1 1	1	-	-	- - -	4	- - -	1	-	6 - 5 1	-

Supplement A. Plurality Cases. — 1896.

(Included in Tables I. and II.)

	SEX.	STATE.	Barnstable.	Berkshire.	Bristol.	Dukes.	Essex.	Franklin.	Hampden.	Hampshire.	Middlesex.	Nantucket.	Norfolk.	Plymouth.	Buffolk.	Worcester.
ا نہ	Tot.	1,468	8	47	148	2	193	28	103	26	254	2	100	45	326	186
YEAR.	Ma.	755	3	30	77	1	103	12	5 0	14	118	1	58	21	16 0	107
THE	Fe.	713	5	17	71	1	90	16	58	12	136	1	42	24	166	79
F (Unk.	_	-	-	-	-	-	-	-	_	-	-	-	-	-	-

Note. — Ten cases of triplets were registered in 1896. In Berkshire County, 1 case: 1 male and 2 females of foreign parentage. In Bristol County, 2 cases: one, 2 males and 1 female; the other, 3 males, all of foreign parentage. In Essex County, 1 case: 1 male and 2 females of foreign parentage. In Hampden County, 1 case: 3 females of foreign parentage. In Norfolk County, 2 cases: one, 2 males and 1 female, American father and foreign mother; the other, 3 males of foreign parentage. In Plymouth County, 1 case: 1 male and 2 females of foreign parentage. In Suffolk County, 2 cases: one, 3 females of American parentage; the other, 1 male and 2 females of foreign parentage.

TABLE III. - STILL-BORN.

Distinguishing by Counties and by Sex the Registered Number of Still-births during the Year.

1896.

	SEX.	STATE.	Barnstable.	Berkshire.	Bristol.	Dukes.	Essex.	Franklin.	Hampden.	Hampshire.	Middlesex.	Nantucket.	Norfolk.	Plymouth.	Suffolk.	Worcester.
	Tot.	2,615	17	66	309	4	332	39	133	48	527	4	101	68	734	233
YEAR.	Ma.	1,558	11	37	199	3	196	21	70	32	842	3	51	43	424	126
THE]	Fe.	983	5	26	96	1	129	18	62	14	170	1	47	23	299	92
I	Unk.	74	1	8	14	-	7	-	1	2	15	-	8	2	11	15

TABLE IV. — MARRIAGES.

Distinguishing by Counties and by Months the Number of Marriages
Registered during the Year 1896.

YEAR AND MO	ovtes.		STATE.	Barnstable.	Berkshire.	Bristol.	Dukes.	Essex.	Franklin.
THE YEAR,			23,651	192	628	2,377	41	2,911	30 3
January, .			1.830	13	53	186	4	212	23
February, .			1,693	14	32	181	4	222	17
March, .		• i	911	6 i	30	. 55	2	113	16
April,			2,271	9	53	241	2 2	268	19
May,		. !	1,459	15	4 0	152	2	175	16
June,		•	3,126	16	78	297	7	398	46
July,	•	• {	1,669	10	52	192	8	205	13
August, .	•	•	1,686	14	55	200	2	198	2 3
September,.		. !	2,206	23	66	212	6	2 58	42
October, .	•	•	2,510	19	67	238	2	300	80
November, .		•	2,654	30	65	286	4	351	34
December, .	•	•	1,636	23	37	137	3	211	24
Unknown, .	•	•	-	-	-	-	-	-	-

TEAR AND M	lortes.		Hampden.	Hampshire.	Middlesex.	Nantucket.	Norfolk.	Plymouth.	Suffolk.	Wordester.
THE YEAR,	•	•	1,503	449	4,157	15	952	790	6,655	2,678
January, .	_		128	32	315	2	70	48	544	200
February, .	•	·	147	24	269		67	34	516	166
March.			47	16	151	1	33	32	287	122
April,			122	60	421	2	108	60	659	247
May,			102	30	221	1	48	58	406	198
June,			201	60	605	2	147	100	804	365
July, .	•		103	34	295	_	58	61	465	178
August, .			120	33	254	1	59	54	481	192
September,.			143	48	448	8	81	73	571	232
October,	•		176	40	431	1	121	96	709	280
November, .			130	47	481	1	100	97	739	289
December, .		•	84	25	266	1	60	77	474	214
Unknown, .	•	•	-	-	-	-	_	-	_	-

TABLE V. - MARRIAGES.

STATE AND COUNTIES: By Age Periods - 1896.

Stat	В АМП	Соти	firs.			ALL AGES.	Under 20.*	20 to 25.	95 to 80.
STATE TOTAL	8,								
Males,	•	•	•	•	•	23,651	417	8,176	7,902
Females,	•	•	•	•	•	23,651	3,592	10,477	5,596
Barnstable.	•								
Males.		_			.	192	3	64	47
Females,	•	•	·			192	43	72	36
Berkshire,	_	•	•	•	, i				
Males.						628	22	221	195
Females,						628	127	254	143
Bristol,									
Males,					.	2,377	66	1,038	672
Females.		•.			.	2,377	523	1,022	460
Dukes,								·	
Males,				•	.	41	1	15	9
Females,						41	11	17	2
Essex,									
Males,		•		•		2,911	81	1,068	934
Females,				•		2,911	487	1,306	657
Franklin,									
Males,				•		303	12	106	83
Females,				•		303	74	134	44
Hampden,									
Males,			•	•		1,503	26	550	557
Females,		•	•	•		1,503	2 59	687	331
Hampshire,									
Males,		•	•	•		449	7	165	159
Females,	•	•	•	•		449	84	192	105
Middlesex,									
Males,	•	•	•	•	•	4,157	62	1,378	1,443
Females,	•	•	•	•	•	4,157	513	1,886	1,088
Nantucket,							_	_	
Males,	•	•	•	•	•	15	1	5	4
Females,	•	•	•	•	•	15	2	6	5
Norfolk,						0.0			• • •
Males,	•	•	•	•	•	952	10	301	34 0
Females,	•	•	•	•	•	952	132	420	234
Plymouth,									004
Males,	•	•	•	•	•	790	26	293	234
Females,	•	•	•	•	•	790	172	317	172
Suffolk,						0.05-		1.000	0.00=
Males,	•	•	•	•	•	6,655	38	1,930	2,365
Females,	•	•	•	•	•	6,655	69 0	2,951	1,751
Worcester,						0.070	00	1040	000
Males,	•	•	•	•	•	2,678	62	1,042	860
Females,	•	•	•	•	•	2,678	475	1,213	568

^{*} This includes 4 marriages of females 14 years of age, 27 of 15; 1 male and 155 females of 16, 17 males and 486 females of 17, 89 males and 1,320 females of 18, and 310 males and 1,600 females of 19.

TABLE V. — MARRIAGES.

STATE AND COUNTIES: By Age Periods - 1896.

3 3 5	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	Over 80.	Unknown.
3,299 1,935	1,670 1,085	842 484	567 259	324 123	190 82	118 39	77 19	52 7	18 1	8 -	1 2
32 14	14 9	9 6	5 2	2 3	4 5	6 2	3 -	3 -	-	- -	-
81 46	45 28	21 9	15 6	9	6 7	6 2	1	4 1	1 -	-	1
255 165	155 104	81 50	47 86	2 8 5	12 6	9 2	9 3	8 1	2 -	-	-
5 6	4 4	2 -	2 -	<u>-</u>	2 -	-	1 -	-	<u>-</u>	-	-
374 237	219 113	96 55	52 23	86 15	22 10	10 5	11 8	6	1 -	1 -	-
39 15	19 10	10 5	11 10	8	4	1 3	3 -	5 1	2 -	-	-
171 107	70 52	49 28	30 15	18 16	13 5	13 1	7 1	4	- 1	-	<u>-</u>
51 29	2 0 18	14 8	11 5	5 1	6 2	3 4	2 -	5 1	- -	1 -	- -
625 340	283 181	137 70	111 45	55 19	30 5	16 6	11 2	5 2	1 -	- -	<u>-</u>
-	2 1	2	1 -	<u>-</u>	-	-	- -	-	-	-	_
142 77	62 51	38 18	19 11	13 3	14 2	7 2	2 2	2 -	1 -	1 -	-
104 55	56 38	34 17	15 10	10 3	6 3	4 2	5 1	2 -	1 -	-	-
1,0 94 660	558 327	280 153	188 64	102 33	54 18	27 4	9 3	8 -	2 -	-	- 1
326 184	163 99	69 64	60 32	43 18	17 15	16 6	13 3	5 1	2 -	-	-

TABLE VI. - MARRIAGES.

Exhibiting the Social Condition and Ages, respectively, of Parties Married during the Year.

1896.
AGGREGATE — Of all Conditions.

	 				AGE (F FE	(ALE	.83								
AGE OF MALES.	ALL AGES.	Under 20	20 to 25	25 to 80	80 to 85	85 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	Over 80	Unknown.
ALL AGES,	23,651	3,592	10,477	5,596	1,935	1,035	484	259	123	82	39	19	7	1	-	2
Under 20, .	417	251	156	8	2	_	_		_	_	_	_	_	_	_	_
20 to 25	8,176					20	1	2	_	_	_	_	_	_	_	-
25 to 30, .	7,902			2,693		91	10	5 9	_	_	_	-	_	_	_	۱ -
3 0 to 35, .	3,299			1,262		170	31	9		-	_	_	-	-	ا ــا	- ا
35 to 40, .	1,670	53	286	529		300	77	12	4 8	-	1	-	 	-	-	1
40 to 45,	842	10	99	193		198	117	27	8	1	-	i –	-	-	-	-
45 to 50, .	567	5 2	44	78	106	132	116	68	16	5	1	1	-	_	-	ļ٠
50 to 55, .	324	2	15		40	67		57		13		-	-	-	-	-
55 to 60, .	190	-	12	8 6 3 3	19	87				18		-	-	-	-	-
60 to 65, .	118	-	3 1	6	4	14 7 2 2	22	17		20	7	4 7	1	-	-	-
6 5 to 70, .	77	-	1	3	4	7	7 3	13	10			7	-	-	-	-
70 to 75, .	52		1	3	-	2	3	9	7	8	9	4	5	1	-	١.
75 to 80, .	13	-	-	- 1	-	2	-	2	-	1	9 5 2	4 2 1	1	-	-	١.
Over 80, .	3	-	-	-	-	-	-	-	-		2	1	-	-	-	1:
Unknown,	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

(A.) First Marriage of both Parties.

9 ,36 8	3,468	9,755	4,62 0	1,107	320	66	25	4	2	_	_	-	-	_	1
412	251	152	8	1	_	_	_	_	_	_	_	_	_	_	_
7,934	2,266	4,900	703		12	_	_	_	_	_	-	-	-	_	_
7,222	778	3,669	2,432	297	38	5	3	_	_	-	_	_	_	-	_
2,507	130			440	72	7	1	_	_	-	_	-	_	-	_
882	34	178	330	217	110	17	_	_	_	-	-	_	_	-	1
271	6	30	85	68	58	20	3	1	_	-	_	_	_	-	_
94	3	9	17	24	20	9	9	2	1	_	_	-	_	-	_
33	-	4	3	6	6	7	6	1	-	_	-	_	- i	-	_
	-	2	1	1	3	1	2	_	1	_	-	_	_	-	_
2	_	_	_	_	1	4	_	_	1	_	-	_	_	_	_
1	-	_	_	_	-1	_	1	_	_	_	_	_	_	-	_
_	-1	-	_	_		-	-	_	_	-	_	_	-	-	-
-	-	_	_	_	-	-	_	-	_	_	_	_	_	_	_
-1	-	_	-	_	-	-1	-	_	_	_	_	_	_	_	_
_	-	-	-	_	-	-	4	-	4	_	-	_	_	-	_
ı	- 1				- 1	ı	- 1								
	412 7,934 7,222 2,507 882 271 94 33	412 251 7,934 2,266 7,222 778 2,507 130 882 34 271 6 94 3 88 3 94 3	7,934 2,266 4,900 7,222 778 3,669 2,507 130 816 178 271 6 30 94 3 9 33 - 4 10 - 2	7,934 2,266 4,900 703 7,222 778 3,669 2,432 2,507 130 816 1,041 882 34 173 830 271 6 30 85 94 3 9 17 33 – 4 3 10 – 2 1	7,934 2,266 4,900 703 53 7,222 778 3,669 2,432 297 2,507 130 816 1,041 440 882 34 173 330 217 271 6 30 85 68 94 3 9 17 24 33 - 4 3 6 10 - 2 1 1	412 251 152 8 1 7,934 2,266 4,900 703 53 12 7,222 778 3,669 2,432 297 38 2,507 130 816 1,041 440 72 882 34 173 330 217 110 271 6 30 85 68 58 94 3 9 17 24 20 33 - 4 3 6 6 10 - 2 1 1 3	412 251 152 8 1 7,934 2,266 4,900 703 53 12 - 7,222 778 3,669 2,432 297 38 5 2,507 130 816 1,041 440 72 7 882 34 173 330 217 110 17 271 6 30 85 68 58 20 94 3 9 17 24 20 9 9 33 - 4 3 6 6 7 10 - 2 1 1 1 3 1	412 251 152 8 1 7,934 2,266 4,900 703 53 12 7,222 778 3,669 2,432 297 38 5 3 2,507 130 816 1,041 440 72 7 1 882 34 173 330 217 110 17 - 271 6 30 85 68 58 20 3 94 3 9 17 24 20 9 9 9 33 - 4 3 6 6 6 7 6 10 - 2 1 1 3 1 2	412 251 152 8 1 - <t< td=""><td>412 251 152 8 1 - <t< td=""><td>412 251 152 8 1 - <t< td=""><td>412 251 152 8 1</td><td>412 251 152 8 1</td><td>412 251 152 8 1</td><td>412 251 152 8 1</td></t<></td></t<></td></t<>	412 251 152 8 1 - <t< td=""><td>412 251 152 8 1 - <t< td=""><td>412 251 152 8 1</td><td>412 251 152 8 1</td><td>412 251 152 8 1</td><td>412 251 152 8 1</td></t<></td></t<>	412 251 152 8 1 - <t< td=""><td>412 251 152 8 1</td><td>412 251 152 8 1</td><td>412 251 152 8 1</td><td>412 251 152 8 1</td></t<>	412 251 152 8 1	412 251 152 8 1	412 251 152 8 1	412 251 152 8 1

TABLE VI. — Continued.

(B.) First Marriage of Male, and Subsequent Marriage of Female.

		-			AGI	OF I	FEMA	LES.								=
AGE OF MALES.	ALL AGES.	Under 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	Over 80	Unknown
ALL AGES, .	1,170	6	142	327	301	239	91	38	16	5	2	2	1	-	-	-
Under 20, . 20 to 25, . 25 to 30, . 30 to 35, . 35 to 40, . 40 to 45, . 45 to 50, . 50 to 55, . 55 to 60, . 60 to 65, . 65 to 70, . 70 to 75, . 75 to 80, Over 80, . Unknown, .	5 182 337 263 199 97 49 24 9 2 1 - 2	- 2 3 - 1 - - - - - -	11 7	79 149 64 25 8 1 - - -	1 16 92 115 52 21 2 	-8 45 57 78 31 15 4 - 1	1 4 13 25 23 17 6 2	2 2 3 8 6 10 4 3 	22 55 22 4 3		1	1 - 1 - 1	1			1 1 1 1 1 1 1 1 1 1

(C.) Subsequent Marriage of Male, but First Marriage of Female.

55	-	_	ı							. 1					
55		- 1	-	-	-	_	_	_	_	_	_		_	_	_
	19	25	9	2	-	-	-	_	-	-	_	-	-	-	_
303	38	146	93	22	4	_	-	-	-	_	_	-	-	_	-
432	34	160	130	77	28	4	4	_	-	_	_	-	_	_	_
428	18	97	154	97	54	6	2	_	-	_	_	_	_	-	_
812	4	60	81	72	56	30	9	-	-	_	_	-	-	_	_
	2	28	41	54	50	32	11	. 1	_	_	_		-	_	-
127	2		17	24			11	4	1	_	_	_	-	_	-
83	_		6				9	8	4	_	_	-	-	_	-
	_	3	5		10	10	3	7	3	1	_	_	_	_	-
28		1	2	3	3	5	7	2	4	_	1	_	-	-	-
18	_	1	1	_	2	1	3	3	1	1	_	-	_	_	-
2	_	_	_	_	_	_	1	_	_	1	_	_	_	_	-
_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	
1	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1
	432 428 312 219 127 83 44 28	482 34 428 18 812 4 219 2 127 2 83 - 44 - 28 - 18 -	432 34 160 428 18 97 312 4 60 219 2 28 127 2 10 83 - 10 44 - 3 28 - 1 13 - 1	432 34 160 130 428 18 97 154 312 4 60 81 219 2 28 41 127 2 10 17 83 - 10 6 44 - 3 5 28 - 1 2 13 - 1 1	432 34 160 130 77 428 18 97 154 97 312 4 60 81 72 219 2 28 41 54 127 2 10 17 24 83 - 10 6 13 44 - 3 5 2 28 - 1 2 3 13 - 1 1 -	432 34 160 180 77 23 428 18 97 154 97 54 812 4 60 81 72 56 219 2 28 41 54 50 127 2 10 17 24 35 83 - 10 6 13 18 44 - 3 5 2 10 28 - 1 2 3 3 13 - 1 1 - 2	482 84 160 180 77 28 4 428 18 97 154 97 54 6 812 4 60 81 72 56 30 219 2 28 41 54 50 32 127 2 10 17 24 35 28 83 - 10 6 13 18 15 44 - 3 5 2 10 10 28 - 1 2 3 3 5 13 - 1 1 - 2 1	432 34 160 180 77 23 4 4 428 18 97 154 97 54 6 2 812 4 60 81 72 56 30 9 219 2 28 41 54 50 32 11 127 2 10 17 24 35 23 11 83 - 10 6 13 18 15 9 44 - 3 5 2 10 10 3 28 - 1 2 3 3 5 7 13 - 1 1 - 2 1 3	432 34 160 130 77 23 4 4 - 428 18 97 154 97 54 6 2 - 312 4 60 81 72 56 80 9 - 219 2 28 41 54 50 32 11 1 127 2 10 17 24 35 23 11 4 83 - 10 6 13 18 15 9 44 - 3 5 2 10 10 3 7 28 - 1 2 3 3 5 7 2 13 - 1 1 - 2 1 3 3	432 84 160 130 77 23 4 4 - - 428 18 97 154 97 54 6 2 - - 812 4 60 81 72 56 30 9 - - 219 2 28 41 54 50 32 11 1 - 127 2 10 17 24 35 23 11 4 1 83 - 10 6 13 18 15 9 8 44 - 3 5 2 10 10 3 7 3 28 - 1 2 3 3 5 7 2 4 13 - 1 1 - 2 1 3 3 1	432 84 160 130 77 23 4 4 -	432 84 160 130 77 23 4 4 -	432 84 160 130 77 23 4 4 -	432 84 160 130 77 23 4 4 -	432 84 160 130 77 23 4 4 -

TABLE VI. — Concluded.

(D.) Subsequent Marriage of both Parties.

-						AGE	OF FE	MALI	8.							
AGE OF MALES.	ALL AGES.	Under 20	20 to 25	25 to 30	80 to 85	85 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	Over 80	Unknown.
ALL AGES, .	1,066	1	39	110	161	221	201	136	78	62	34	16	6	1	_	-
Under 20, 20 to 25, 25 to 30, . 30 to 35, . 35 to 40, . 40 to 45, . 45 to 50, . 55 to 60, . 60 to 65, . 65 to 70, . 70 to 75, . 75 to 80, . Over 80, . Unknown, .	-5 40 97 161 162 205 140 88 70 47 39 9	1	269967	-2 19 27 20 19 14 4 1 1 1 2	1 9 85 41 83 26 8 5 2 1	- - 4 18 58 48 47 22 16 3 4 - 1	1 7 29 44 58 31 15 12 2 2	- - 1 2 9 88 86 24 14 5 6 1	2 2 11 26 12 13 8 4	- - 1 3 10 13 15 12 7	2 6		- - - - - - - - - - - - - - - - - - -			

(E.) Conjugal Condition of Persons Married, 1896.

	Whole			FEMA	LES.		
	of Marriages.	First Marriage.	Second Marriage.	Third Marriage.	Fourth Marriage.	Fifth Marriage.	Unk.
	23,651	21,415	2,138	95	3	-	_
	20,538	19,368	1,142	28	·_	_	_
	2,873	1,934	891	46	2	-	_
	217	105	96	15	1	_	_
	21	6	9	6	-	-	_
	2	. 2	_	_	-	_	_
•	-	-	-	-	-	_	-
		Number of Marriages. . 28,651 . 20,538 . 2,873 . 217 . 21	Number of Marriages. . 28,651 21,415 . 20,538 19,368 . 2,873 1,934 . 217 105 . 21 6	Number Grand Number Nu	Number of Marriages. First Second Marriage Third Marriage Marriage Marriage Print Second Marriage Third Marriage Third Marriage Third Marriage Second Marriage Third Marriage	Number of Marriages	Number of Marriages First Marriage Second Marriage Marriag

TABLE VII. - DEATHS.

Distinguishing by Counties, by Months, and by Sex, the Registered Number of Persons who Died during the Year.

1896.

							10									
Year and Months.	SEX.	BTATE.	Barnstable.	Berkshire.	Bristol.	Dukes.	Essex.	Franklin.	Hampden.	Hampshire.	Middlesex.	Nantucket.	Norfolk	Plymouth.	Buffolk.	Woroester.
YEAR.	To.	49,381	584	1,547	4,985	98	6,295	642	2,859	931	9,445	84	2,230	1,854	12,449	5,378
₽{	Ma.	25,140	300	807	2,498	52	3,163	312	1,433	471	4,684	35	1,137	961	6,510	2,777
THE	Fe.	24,241	284	740	2,487	46	3,132	330	1,426	460	4,761	49	1,093	893	5,939	2,601
ا نہ	To.	3,825	40	118		10					745	8		128		
Jan.	Ma. Fe.	1,880 1,945	20 20	64 54	176 187	3 7	241 231	20 16	102 130	26 43		2	97 109	70 58	502 493	
Feb.	To. Ma.	3,756 1,893	60 27	120 54	338 152	3 1	526 28 3	52 28	212 107	60 26	687 335	12 7	163 86	1 24 59	991 505	408 228
돌 {	Fe.	1,863	33	66	186	2	248	24	105	84	352	5	77	65	486	185
March.	To. Ma. Fe.	4,202 2,085 2,117	55 25 30	114 61 58	363 177 186	13 7 6	505 252 253	68 30 38	251 120 131	81 41 40	769 381 388	3 2 1	201 91 110	142 78 67	1,125 572 553	512 251 261
≓ (To. Ma.	4,122 2,130	58 30	186 77	387 197	11 5	543 274	57 20	218 114	72 85	798 406	6 2	186 94		1,068 587	459 228
₫{	Fe.	1,992	28	59	190	6	269	37	104	37	392	4	92	62	481	281
May.	To. Ma. Fe.	4,040 2,064 1,976	41 16 25	113 51 62	449 236 213	10 6 4	533 263 270	55 31 24	212 109 108	62 30 32	738 364 374	9 2 7	204 99 105	141 79 62	1,055 545 5 10	418 233 185
June.	To. Ma. Fe.	3,622 1,875 1,747	25 16 9	122 63 59	427 231 196	8 5 3	470 242 228	42 15 27	228 112 116	79 46 33	675 327 348	2 2	147 83 64	132 68 64	887 464 423	378 201 177
July.	To. Ma. Fe.	5,423 2,757 2,666	48 23 25	193 100 93	673 327 346	12 4	642 307	66 3 3			1,069 530 539	4	208		1,859 715 644	508 278 225
Λυς. >>>	To. Ma. Fe.	5,391 2,828 2,563	65 84 81	172 103 69	550 269 281	7	727 360	69 32	298 151 147	1	1,046 537 509	8	265 148		1,215 669 546	583 309 274
		_,,,,,,,,,		ات	-01	_ 1	-	3.		"	303	1		-10	010	

TABLE VII. — Concluded.

Year and Months.	SEX.	STATE.	Barnstable.	Berkshire.	Bristol.	Dukes.	Essex.	Franklin.	Hampden.	Hampshire.	Middlesex.	Nantucket.	Norfolk.	Plymouth.	Suffolk.	Worcester.
Sept.	To. Ma. Fe.	4,099 2,061 2,038	59 31 28	124 58 66	417 210 207	6 2 4	507 254 253		123	58 31 27	813 393 420		97	186 98 98	963 508 455	227
Oct.	To. Ma. Fe.	3,738 1,889 1,849	46 25 21		357 174 183	5 3 2		30	205 105 100		726 364 362		84	59	981 462 469	227
Nov.	To. Ma. Fe.	3,351 1,714 1,637	36 18 18	47	293 150 143	5	206	16	99	81 42 39	667 331 3 3 6	10 6 4	71		877 458 419	193
Dec.	To. Ma. Fe.	3,812 1,964 1,848	51 35 16		368 199 169	7 5 2	465 285 280	26	117	99 50 49	712 3 55 357	3 1 2	79		983 528 460	211

DEATHS BY AGE AND SEX, AND BY COUNTIES.

1896.

TABLE VIII. - DEATHS BY AGE AND SEX,

Distinguishing by Age and Sex the Number of Deaths registered in Each Population, distinguishing Sex, according to the Census of 1895,—and

STATE AND COUNTIES.	Population. Census 1895	Sex.	Percentage of Deaths to Population.	No. of Deaths Regist'd 1896.	Under 1	1 to 2	2 to 8	8 to 4	4 to 5	5 to 10	10 to 15
Massachusetts, {	2,500,188 1,214,701 1,285,482	Tot. Ma. Fe.	1.96	49,881 25,140 24,241	11,765 6,568 5,197	2,500 1,278 1,227	1,108 572 586	742 876 866	506 261 245	1,255 604 651	688 856 332
Barnstable,	27,654 18,294 14,860	Tot. Ma. Fe.	2·11	584 800 284	67 88 29	19 11 8	9 4 5	8 - 8	1 -	9 8 6	6 4 2
Berkshire, {	86,292 42,525 48,767	Tot. Ma. Fe.	1:79	1,547 807 740	330 192 188	68 32 86	84 17 17	24 14 10	15 8 7	48 20 23	36 14 22
Bristol, {	219,019 105,582 118,437	Tot. Ma. Fe.	2:28	4,985 2,498 2,487	1,668 896 772	812 145 167	116 62 54	86 48 43	41 21 20	108 57 31	67 89 28
Dukes,	4,238 2,057 2,181	Tot. Ma. Fe.	2.81	98 52 46	9 4 5	4	-	1 - 1	=	2 - 2	2 1 1
Essex,	880,898 161,913 168,480	Tot. Ma. Fe.	1.91	6,295 3,163 3,182	1,455 797 658	268 144 124	117 62 55	86 44 42	61 80 81	180 98 87	89 45 44
Franklin,{	40,145 20,293 19,852	Tot. Ma. Fe.	1:60	642 812 830	101 55 46	17 10 7	5 2 8	2 1 1	6 3 3	17 6 11	9 4 5
Hampden,	152,938 74,133 78,805	Tot. Ma. Fe.	1.86	2,859 1,438 1,426	889 467 872	141 70 71	66 85 80	59 80 29	87 17 20	74 37 87	53 34 19
Hampshire,	54,710 26,061 28,649	Tot. Ma. Fe.	1.70	931 471 460	178 102 76	30 14 16	14 6 8	9 4 5	6 4 2	17 10 7	14 11 8
Middlesex,	499,217 289,828 259,894	Tot. Ma. Fe.	1.89	9,445 4,684 4,761	2,289 1,808 981	528 270 258	198 89 104	124 58 66	95 47 48	248 117 181	128 63 65
Nantucket,	8,016 1,315 1,701	Tot. Ma. Fe.	2·79	84 85 49	15 12 3	1 -	2 1 1	=	1	1 -	=
Norfolk,	184,819 64,780 70,039	Tot. Ma. Fe.	1:65	2,230 1,137 1,093	451 250 201	100 57 48	87 19 18	28 11 12	26 12 14	48 19 24	80 11 19
Plymouth,	101,498 50,694 50,804	Tot. Ma. Fe.	1:83	1,854 961 898	293 153 140	85 88 47	40 21 19	20 18 7	14 7 7	21 23	26 13 18
Suffolk,{	539,799 260,675 279,124	Tot. Ma. Fe.	2:31	12,449 6,510 5,939	2,847 1,601 1,246	723 361 862	865 204 161	284 116 118	161 87 74	331 148 183	158 84 74
Worcester, {	306,445 152,066 154,389	Tot. Ma. Fe.	1.76	5,878 2,777 2,601	1,223 698 530	204 116 88	111 50 61	71 42 29	42 25 17	138 72 66	70 88 87

AND BY COUNTIES - 1896.

County and in the State during the Year 1896,—in Connection with the also with the Percentage of the Registered Number of Deaths to the Population.

																	_
15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 to 95	95 and over.	Unknown.
1,213 549 664	942	2,179 1,099 1,080	966	2,108 1,050 1,053	918	973	1,031	1,112	1,201	1,248	2,625 1,334 1,291	1,213	831	1,057 451 606	382 119 263	115 28 87	8: 6:
13 8 5	28 14 9	10 8 8	15 8 7	13 8 5	17 10 7	26 13 13	17 8 9	28 12 16	44 18 26	41 21 20	42 25 17	66 34 32	62 34 28	30 13 17	11 3 8	6 3 3	
44 18 26		66 38 28	59 32 27		42 24 18	51 28 23	57 31 26	64 31 33	73 32 41	82 38 44		115 64 51	78 39 39	47 25 22	19 9 10	5 1 4	
124 56 68	76	172 78 94	164 83 81		141 64 77	172 81 91	178 88 90	206 107 99	212 101 111	110		213 108 105	125 61 64	79 35 44	41 14 27	9 1 8	
1	2	1 1	1 1	-	2	3 2 1	3 2 1	4	6 2 4	18 8 10	4	9 5 4	11 7 4	5 2 3	1 1	1111	E
347 68 79		254 127 127	229 114 115	132		240 123 117	261 132 129	282 145 137	313 155 158	383 180 203	177	325 150 175	266 112 154	149 62 87	64 15 49	4	4 3
12	18	10		8		22 12 10	26 10 16	31 16 15		33 22 11	28	27	49 21 28	23 11 12	8	3	
77 32 45	49	51	43	48	50	44	95 46 49	115 47 68	125 61 64	125 54 71	77	71	106 50 56	43 14 29		8 3	
32 12 20	19	19	1.5	20	13		13	28 10 18	31	38	38	41	14	23	3		
248 104 144	179	194	153	171	177	176	390 184 206	432 219 213	223	228	250	204			18	23 4 19	1
1	3		1	-	-	5 2 3	-	4 2 2	-	2	2			1	1	13	K
54 25 25	40	48	40	86	46	44	47		68	68	79	81	47	29	- 8	4	
20 21 17	34	40	38	43	24	30	50	47	39	75	81	66	55	38	10	2	
290 137 158	280	377	340	376	296	318	307	287	305	259	250	190	106	61	13	5	
122 00 71	102	108	90	101	91	90	113	141	143	145	182	169	129	58	16	4	

TABLE IX. — CAUSES OF

Distinguishing by Months, by Age, and by Sex, the Registered arranged), during

							wii	uny	· ,	uui	ung
	DEATI	is.									
CAUSES OF DEATH.	Sex.	Totals.	January.	February	March.	April.	May.	June.	July.	August	September
ALL CAUSES,	Totals, . Males, . Females,	49,881 25,140 24,241	1,880 1,945	1,898 1,863	2,085 2,117	2,180 1,992	2,064 1,976	1,875 1,7 4 7	2,757 2,666	2,828 2,563	2,061 2,088
ZYMOTIC DISEASES,	Totals, . Males, . Females,	8,527 4,378 4,149	229 228	164 188	183 188	179 224	196 208		957 934	932 794	422 484
I. 1. Masmatic,	Totals, . Males, . Females,	7,988 4,067 8,921	201 215	143 172	161 166	151 206	171 191	286 224	926 905	905 778	402 417
1. Chicken-pox,	Totals, . Males, . Females,	1 - 1	=	-	1 1	-	-	-		1	=
2. Measles,	Totals, . Males, . Females,	187 59 78	- 1 1	- 8 1	- 6 2	- 2 7	- 4 6	9 11	11 13	4 9	1
8. Scarlatina,	Totals, . Males, . Females,	249 127 122	6 10	6 11	17 19	- 18 9	10 17	17 9	6	4 2	- 8 2
4. Diphtheria,	Totals, . Males, . Females,	1,824 685 689	62 80	58 55	88 52	51 50	52 54	- 55 42	89 40	34 36	68 42
5. Cerebro Sp. Menin- gitis,	Totals, . Males, . Females,	108 52 56	5 4	- 2 5	- 7 7	1 8	5	4 5	5	5 6	9 1
6. Quinsy, etc.,—	Totals, .	27									_
— Parotitis,	Males, . Females,	12 15	1 2	1	1	4 2	2	1	1	2	1 2
$-Quinsy, \cdot \cdot $	Totals, . Maies, . Females,	8 3 5	1	1	-	-	-	1 1	- 2	-	=
7. Croup,{	Totals, . Males, . Females,	858 177 176	20 19	18 17	13 13	18 17	10 9	- 5 9	10 6	- 8 4	10 12
8. Whooping-cough, . {	Totals, . Males, . Females,	282 114 168	8 12	9 14	9 13	- 8 22	7 19	12 11	10 28	22 18	9 16
9. Typhoid Fever, . {	Totals, . Males, . Females,	723 397 826	36 28	17 20	19 13	17 16	25 16	22 15	19 25	36 36	49 55
10. Erysipelas,	Totals, . Males, . Females,	166 86 80	10 6	- 8 12	13 5	- 6 11	14 12	- 6 9	8	- 6 6	4
11. Puerperal Fever, .	Females,	30	4	2	9	1	1	3	5	1	1

DEATH. — (Nosological Arrangement.)

Number of Deaths from various Specified Causes (Nosologically the Year 1896.

October.	November,	December.	Under 1	# to 2	20 to 33	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	Over 80	Unknown,
1,889 1,849	1,714 1,637	1,964 1,848	6,568 5,197	1,273 1,227	572 536	376 366	261 245	604 651	356 332	549 664	2,041 2,079	2,016 1,990	1,891 1,793	2,148 2,110	2,449 2,528	2,547 2,531	1,429 1,976	65
296 271	264 207	251 231	1,884 1,627	458 446	241 224	198 174	188 111	276 319	82 78	65 100	242 207	195 177	146 116		129 165	129 148	62 129	1
265 247	236 190	220 210	1,831 1,584	448 437	239 217	198 174	137 109	266 316	81 76	60	209 165	133 136	90 92	92 108	108 153	114 136	60 127	1
111	-	1	111	-	1	1	1	1	=	111	1.1.1	1111	111	- 5	-	111	1.1.1	1
7 3	5 6	6 18	15 24	26 29	8 7	8 5	1	2 6	1 2	1	3 1	2	1111	:	7 4 7	1	111	111
6	13 15	21 13	5 6	17 14	32 21	24 17	25 9	19 44	3 3	3	3	1 3	ī	12.4	-	2.7.7		
79 68	90 53	69 67	40 35	96 97	118	105 94	78 60	168 179	40 36	10 11	8	11 9	7 4	1	2 2	1	ī	-
4 2	4	8 5	18 17	8 7	2 6	2	2 5	- 6	5	1 2	2 2	21	1 3	3 2	3	1	ī	
2	111	1 19	i	3 1	-	1	1	2 6	-	2	1	1	1	-	-	- 1	- 2	1.1.1
	1	1111	111	1	111	ī	1	1	- 1	-			1	-	i	1	- 2	, , ,
30 18	20 27	30 25	26 21	39 29	36 39	33 32	15 19	28 33	- 2	3	-	-	-	1	ī		2.5	
10	7	9	79 101	22 43	8 13	3 5	2	-	1		1	-	1			-	1	
68	51 35	38 19	2 1	1 1	5 1	3	3 3	16 17	20 20	38	163		31 20	23 29	3		1 3	1
6 3	6 5	4 7	22 24	4 2	ī	1111	1	1	-	ī	3 7	3	5 5	8 7	18		9 5	
2	-	2	4.5	-	-	-	-	-	-	-	15	11	4	-	8	-	-	-

TABLE IX. - Continued.

	DEAT	гна.	į.								er.
CAUSES OF DEATH.	Sex.	Totals.	January.	February	March.	April.	May.	Jane.	July.	August.	September.
I. 1. Miasmatic — Con. 12. Carbunele,	Totals, . Males, . Females,	7 6 1	2	=	2	ī 1	=	=	=	- 1	-
18. Influenza,	Totals, . Males, . Females,	150 64 86	18 11	- 6 10	14 16	- 9 18	- 2 10	5 5	- 8 1	- 2 1	1
14. Dysentery,	Totals, . Maies, . Females,	407 179 228	4 8	- 2 8	- 2 2	- 8 1	- 8 2	- 4 6	31 46	79 89	36 55
15. Diarrhœa,	Totals, . Males, . Females,	604 295 309	9 14	9	2 8	- 4 13	10 7	14 11	70 66	92 81	52 54
16. Cholera Infantum,	Totals, . Males, . Females,	2,957 1,599 1,858	6	- 8 -	2 1	- 6 8	18 12	116 70	688 626	578 441	150 156
17. Cholera,	Totals, . Males, . Females,	108 44 59	- 2	- -	=	- 2	ī -	1	15 19	21 29	4 5
18. Ague,	Totals, . Males, . Females,	46 26 20	1 1	=	ī	ī	- 5 8	2 2	- 2	- 4 3	6 8
19. Remittent Fever,	Totals, . Males, . Females,	43 25 18	2 2	ī 1	- 3 -	- 1	2 2	- 8 2	2	1 2	5 8
20. Rheumatism,	Totals, . Males, . Females,	263 117 146	15 14	9 13	12 10	- 7 20	- 8 15	9 18	18 14	9 10	- 6 8
I. 2. Enthetic,	Totals, . Males, . Females,	282 120 162	9 11	10 12	12 14	7 12	9 13	- 8 13	16 19	9 13	10 11
1. Syphilis,	Totals, . Males, . Females,	76 39 37	2 3	- - 2	- 7 5	4	1 2	2 3	- 6 6	8	3 2
2. Stricture of Urethra, .	Males, .	5	2	-	-	-	-	-	-	-	2
8. Hydrophobia,	Males, .	2	-	1	-	-	-	-	1	-	-
4. Glanders,	Males, .	1	-	-	-	-	-	-	1	-	-
5. Maliguant Pustule,	Females,	1	-	-	-	-	-	1	-	-	-
6. Septicæmia,	Totals, . Males, . Females,	197 73 124	5 8	9 10	5 9	3 11	8 11	6 9	- 8 13	6 9	5 9
I. 3. Dietetic,	Totals, . Males, . Females,	253 187 66	19 2	111	10 8	21 6	16 4	9 5	15 10	18	9
1. Privation,	Females,	2	-	-	1	-	-	-	-	-	-
2. Purpura and Scurvy,	Totals, . Males, . Females,	56 28 28	2	- 8	- 3 5	- 7 3	- 3 4	- 3	2 8	2 1	2 1
3. Delirium Tremens,	Totals, . Males, . Females,	31 29 2	3	8 -	=	- 8 -	ī	8	2 2	4	=
4. Intoxication,	Totals, . Males, . Females,	164 130 84	14 2	- 8 1	- 7 2	11 3	12 -	6 2	11 5	12 2	7 5

Nosological Arrangement.

	_				_													_
October.	November.	December.	Under 1	1 to 8	se to ss	8 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	Over 84	Unknown.
=	=	ī	=	=	:	=	:	-	-	=	ī	2	i	=	ī -	1 1	=	=
4	2 8	3 8	10 11	2 4	i	=	=	=	ī	=	=	4	2 4	5 7	11 15	20 19	- 8 17	- -
6 18	7	1	31 15	18 25	7 11	12 5	6	18 11	4	- 1 6	12 8	7 9	11 11	11 19	14 38	15 82	17 88	=
14 88	8	11 16	189 158	20 22	8 2	2 2	ī	=	=	- 	5 2	2 5	7	18 11	14 29	26 81	12 42	ĩ
23 28	8 10	1 5	1,884 1,170	190 162	17 16	5 7	3	=	=	=	=	=	=	=	=	=	=	=
1 - 2 1	ī	ī	Ξ	Ξ	Ξ	=	=	5 8	=	1 8	3 8	1 8	5 8	7 6	11 9	6 18	5 11	=
	3 8	1 2	8	ī	=	ī -	ī	- 2	1	ī	8 8	1 1	ī	4 2	5 4	- 5 4	i	=
2	ī	3 1	1 2	Ξ	-	1	-	1	2	2 -	2 2	- 8	2 2	3 8	- 6 2	1	1	=
7 6	10 8	19 16	5	ī -	2 -	2 2		5 2	4 5	5 10	- 4 18	14 17	15 18	14 21	23 28	18 21	5 9	-
9 16	8 18	18 15	41 83	8 4	2	-	1	6 2	1 2	8 9	10 85	10 80	16 15	18 11	- 8 7	7 10	2 2	-
2	2	7	82 24	1 2	ī	=	=	=	-	1	1	1	8	1	1	1	-	:
-	1	-	-	-]	-	-	-		-	-	-	1	8	1	-	-	-	-
-	-		-	-	-			1		-			1	1	-	-		-
	_		_	_		_		_	-	_	_	1	-	_	-	_		_
7 10	6 12	- 6 13	9	2 2	- 1		-	5 2	1 2	- 8 8	10 84	- 8 28	9	10 10	7 6	7 9	2 2	:
21	20 4	18 6	10 11	7 5	2 5		1 1	2		2 1	23 7	52 11	- 40 9	27 8	18	8 2		:
-	-	1	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
-	3	4	10 10	7 6	2 5	=	1	2	-	2	2 -	ī	1	2	=	1 2		:
•	3	4	=				=		=		6	15	6	ī	i		•=	:
18	14	10	=			=	=			=	15 6	36 10	84 8	26 5	12 5	7	=	:

TABLE IX. -- Continued.

	LE IX.	Co	11	ueu	1				-	_	
	DEAT	18.		6							i i
CAUSES OF DEATH.	Sex.	Totals.	January	February.	March.	April.	May.	June.	July.	August.	September.
I. 4. Parasitic,	Males, .	4	-	-	-	-	-	2	-	-	1
1. Thrush,	Males, .	. 2	-	-	-	-	-	1	-	-	1
2. Worms,	Males, .	2	-	-	-	-	-	1	-	-	-
CONSTITUTIONAL DISEASES, .	Totals, . Males, . Females,	9,648 4,411 5,287	840 415	366 386	403 451	403 451	374 474	356 429	392 469	419 499	373 47 5
II. 1. Diathetic,	Totals, . Males, . Females,	2,283 806 1,477	61 112	67 112	68 132	61 141	78 127	73 122	73 125	66 143	62 117
1. Dropey, . ·	Totals, . Males, . Females,	122 50 72	5 5	3 6	- 8 7	5 8	2 5	14	8 7	4 5	6 5
2. Ansemia,	Totals, . Males, . Females,	231 95 136	9	3 10	10 7	11 11	6 11	- 5 9	10 9	7 20	9 11
- Can. of Bowels,	Totals, . Males, . Females,	14 7 7	- - 1	- - 1	1	=	- 2	- - 1	- 8 2	2	=
-Can. of Breast,	Females,	128	12	8	14	14	7	11	9	15	11
—Can. of Kidney,	Totals, . Males, . Females,	7 4 8	=	ī	ī	=	ī 1	ī -	=	=	-
Can. of Liver,	Totals, . Males, . Females,	200 71 129	- 8 9	7 8	5 14	6 18	- 9 16	- 7 12	- 4 18	5 12	- 8 8
— Can. of Spleen,	Totals, . Males, . Females,	2 1 1	=	=	- ī	=	ī	=	=	=	=
—Can. of Stomach,	Totals, . Males, . Females,	367 178 . 189	15 14	117	14 15	15 14	16 20	18 14	15 20	16 16	18 21
- Can. of Uterus,	Females,	213	20	18	25	21	11	17	11	20	18
— Can. (part not stated), . {	Totals, . Males, . Females,	851 322 529	20 38	34 49	28 40	19 45	32 45	81 48	29 51	28 51	17 88
— Epithelioma, $\left\{\right.$	Totals, . Males, . Females,	16 11 5	1	1 1	=	1 1	=	4	- 1	ī	1 1
4. Canker (Noma),	Totals, . Males, . Females,	12 6 6	-	=	=	- 3	ī 1	<u>-</u>	=	ī	ī
5. Mortification,	Totals, . Males, . Females,	120 61 59	- 8 4	7 4	6 9	4 6	- 5 8	- 6 6	4 2	3 3	7
II. 2. Tubercular,	Totals, . Males, . Females,	7,365 3,605 3,760	279 303	299 274	335 819	342 310	301 347	283 307	819 344	353 856	311 358
1. Scrofula,	Totals, . Males, . Females,	64 30 34	1 2	2 1	3 2	1 5	8	4	3 2	4 8	4
— Cellulitie, $\left. \cdot \right $	Totals, . Males, . Females,	14 6 8	- 1 2	=	ī	-	2 1	- - 1	=	2 3	- -

Nosological Arrangement.

_						NO	olo	gice	u z	4770	ange	men	ι.					
October.	November.	December.	Under 1	168	8 2 8	8 to.4	4 to 5	5 to 10	10 to 15	15 to 20	\$0 to \$0	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	Over 80	Unknown.
1	-	-	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	2	-	j -	-	-	-	-	-	-	-	-
875 431	284 375	826 382	684 579	160 154	50 53	26 28	24 28	52 69	42 99	189 322	822 1,011	697 818	496 597	428 563	384 485	275 302	81 187	1 2
69 119	64 109	- 69 118	23 19	7 9	8 2	3 1	- 8 2	- 1 5	- 8 7	10 7	15 84	31 122	88 257	174 356	210 352	165 205	65 98	- 1
5 10	1	- 4 6	- 2 1	=	=	=	=	- -	- 1	8	-	3 6	6 9	7 10	12 21	12 16	5 8	-
8 11	6 12	11 16	14 16	5 7	ī	ī -	ī 1	- 3	4 2	- 8 4	- 2 -11	4 14	8 13	17 21	18 32	14 9	- 8 3	-
=	ĩ	-	-	-	=	=	=	=	- -	=	-	-	1 8	- 3 3	2	1	=	111
10	6	11	-	-	-	-	-	-	-	-	-	11	24	81	28	22	12	-
=	- - 2	-	-	=	=	ī -	:	=	=	=	-	-	ī	ī	ī	1	Ξ	-
- 8 6	- 5 8	- 9 5	-	i	=	-	=	=	-	=	- 5	2 9	9 30	24 36	21 29	12 15	- 2 5	
=	=	-	-	=	=	- -	=	=	-	=	-	=	-	=	ī 1	=	-	-
18 16	19 18	8 14	-	=	=	-	=	=	=	- -	- 4 2	7 14	21 28	42 49	58 57	37 30	9	
14	25	18	-	-	-	-	-	-	-	-	5	23	57	67	39	17	4	1
30 45	24 81	30 48	2	1 2	=	- 1	ī 1	- 2	4 8	- 4 3	- 8 10	18 42	41 85	73 185	84 182	65 72	26 40	
=	2	ī	=	=	=	=	ī -	=	=	=	=	ī -	1	ī 1	- 2 1	3	- 2 1	
- 2	:	3	2 1	=	2 2	=	-	ī	- 1	=	- 1	=	- 1	=	-	ī	=	111
5 5	- 8 8	- 8 5	8	=	=	ī -	=	=	=	=	1	1 8	1 5	- 6 8	11 11	19 21	18 16	
306 312	230 206	257 264	661 560	158 145	47 51	23 27	21 21	51 64	34 92	179 315	807 977	666 691	408 840	254 207	174 183	110 97	16 39	1 1
3 4	- 1 2	- 1 1	- 6 8	- 2 1	- 2	- ī	- ī	1 2	=	=	2	2 2	- 7 2	1 6	2 3	7 5	- 1	
-	- 1	-	-	=	=	=	=	-	ī	=	-	- 3	1 2	- 3 -	1	1 -	=	=

TABLE IX. - Continued.

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	DEAT	B8.		, i							Ę.
CAUSES OF DEATH.	SRX.	Totals.	January.	Pebruary.	March.	April.	May.	June.	July.	August.	Beptember.
II. 2. Tubercular - Con.	m-4-1-										
— Lumbar Abscess,	Totals, . Males, . Females,	4 5	1	-	1	2	-	1	1	1	=
Goltre,	Totals, . Males, . Females,	15 1 14	1 1	-	-	- - -	- 1	-	- 1	2	1 2
2. Tabes Mesenterica,	Totals, . Males, . Females,	1,194 591 608	19 46	- 88 82	41 35	29 35	29 42	85 84	- 78 66		109 104
8. Phthisis (Consumption of Lungs),	Totals, . Males, . Females,	5,586 2,698 2,848	289 238	244 220	257 254	279 248		223 244	209 265	220 227	177 233
4. Hydrocephalus,	Totals, . Males, . Females,	533 280 253	18 15	21 21	88 27	88 25	22 26	20 22	84 20	82 24	20 18
LOCAL DISEASES,	Totals, . Males, . Females,	28,403 11,966 11,487	1,017 1,025	1,041 1,047	1,175 1,184	1,188 1,040	1,111 999	- 884 813	975 968	9 62 912	880 819
III. 1. Nervous System,	Totals, . Males, . Females,	6,584 8,394 8,190	258 265	285 291	287 826	295 246		284 221	315 332	329 296	272 254
1. Cephalitis,	Totals, . Males, . Females,	1,538 838 705	48 48		63 61	81 59		71 44	94 85	92 81	72 68
2. Apoplexy,	Totals, . Males, . Females,	2,035 1,008 1,082	86 90	87 99		98 76		80 74	80 99	86 78	
8. Paralysis,	Totals, . Males, . Females,	1,192 585 607	44 51			49 50		48 40		57 56	48 57
4. Insanity,	Totals, . Males, . Females,	288 114 124	18 12		6	9	9			12 18	17 9
5. Epilepsy,	Totals, . Males, . Females,	141 75 66	10		12 9	8		6 2	5 10	5 9	
6. Tetanus,	Totals, . Males, . Females,	29 22 7	2	1		2	2	2	8	4	1
7. Convulsions,	Totals, . Males, . Females,	836 444 392	32 29	38 41		40				40 86	
-Brain Disease,	Totals, Males, Females,	288 146 142	14		8	18		19	18 19		
— Softening of Brain, .	Totals, Males, Females,	64	4	6	8		3	7 5	4 5	1	
— Locomo. Ataxia,	Totals, Males, Females,	. 78		4	4		1 8		7	8	
— Neuralgia,	Totals, Males, Females,	66 30 86		8 1	2			2 4	2		2

Nosological Arrangement.

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October.	November.	December.	Under 1	1 to 8	8 2 8	8 to 4	A to 5	5 to 10	10 to 15	15 to 20	26 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	Over 80	Unknown.
1	=	-	=	:	=		=	-	=	111	- - 2	2 2	ī -	-	- 1 1		-	:
- - 4	- - 8	- 1	=	=	=	=	- -	=	=	-	-	- 3	- 4	- 2	-	1	-	=
69 62	33 38	28 24	459 407	52 52	10 10	7 5	- 2 4	- 6 4	2 4	7	13 10	2 16	- 3 9	- 6 12	10 18	11 27	- 8 18	=
219 222	170 206	211 219	75 60	42 31	12 11	- 6 8	7 5	21 29	20 82	176 308	788 952	656 660	898 821	244 186	160 109	90 65	7 20	1 1
14 20	16 16	17 19	121 88	57 61	25 28	10 18	12 11	28 29	11	3 5	9	4 5	- 8 2	1	ī	-	ī	=
862 865	868 818	1,008 967	2,211 1,687	600 577	249 242	129 187	88 91	209 284	160 139	224 207	635 647	775 821	984 968	1,855 1,805	1,758 1,731	1,817 1,724	774 969	8
243 239	246 218	268 287	787 534	212 211	86 84	45 48	89 25	71 64	41 29	46 89	111 101	151 141	204 199	336 834	481 484	574 556	254 840	6 2
47 58	52 49	68 42	362 268	138 186	64 52	25 35	34 16	42 48	19 18	25 16	33 29	25 20	25 15	18 21	11 14	- 9 12	8 5	Ξ
78 80	84 80	84 83	77	1	8	1 1	2	ī	8 4	5 8	23 18	48 45	77 84	167 186	258 250	290 274	115 146	1
47 50	50 41	41 50	i	2 6	3 2	4	ī	6 2	4 8	8 2	14 7	39 18	56 41	86 78	110 130	170 186	86 186	1
5 10	9 8	18 12	=	Ξ	=	=	=	=	=	1 2	8	12 18	9 11	11 18	20 27	24 24	27 26	2
6 2	2 2	11 2	- 8 1	ī	1 2	=	=	2 1	6	8 7	15 10	6 12	10 10	8	1	3	2	=
8	=	-	7 2	Ξ	=	=	=	ī	2	2	8	2	4 2	-	-	1	-	=
28 25	94 15	29 25	827 240	61 62	14 25	18 12	4	13	3	3	16	1 15	1 6	8	2	-	1	=
13 10	8	13	30 15	9	1 8	2	ī	5 4	3 2	2 4	8 14	10 13	10 17	15 16	3 0	18 29	3 10	=
6	6	1 5	=	=	-	-	=	=	=	-	2	1 8	3	10 2	24 14	_	5 12	=
8	5 1	6	-	Ē	-	=	=	1 2	1 -	-	2	3 2	8 7	16	17 11	7	6	-
1	5	3]. =	ī	=	=	=	=	=	2	2 3	4	4 3	3 6	3 10	8 5	6	=

TABLE IX. — Continued.

	DEAT	RS.									
CAUSES OF DEATH.	SKX.	Totals.	January.	February	March.	April.	May.	June.	July.	August.	September.
III. 2. Organs of Circulation, .	Totals, . Males, . Females,	4,206 2,096 2,110	169 200	183 169	209 206	180 214	194 196	167 181	166 140	164 167	150 153
1. Pericarditis,	Totals, . Males, . Females,	272 126 146	10 8	12 15	11 18	8 17	11 16	16 20	9	9 8	18 10
2. Aneurism,	Totals, . Males, . Females,	63 42 21	2 4	4 2	6 5	3 2	5 -	4 2	ī	8 -	1 2
— Angina Pectoris,	Totals, . Males, . Females,	182 77 55	- 4 6	3	8 8	6 8	6	6	9	2 2	6 7
— Embolism,	Totals, . Males, . Females,	74 34 40	2 4	3 5	2 4	- 8 2	5 4	1 8	4 3	2 1	2 4
— Heart Disease, {	Totals, . Males, . Females,	3,664 1,817 1,847	151 178	155 144	182 176	160 190	167 175	140 147	144 123	148 155	128 130
Phlebitis,	Females,	1	-	-	-	-	-	-	-	1	-
III. · 3. Respiratory Organs,	Totals, . Males, . Females,	6,736 3,480 3,256	360 357	871 369	456 419	498 383	378 312	206 181	140 174	125 98	158 147
1. Laryngitie,	Totals, . Males, . Females,	105 57 48	- 8 8	3 4	6	7 3	3 7	3 2	- 5 2	- 6	4 2
2. Bronchitis,	Totals, . Males, . Females,	1,452 689 763	61 82	78 80	87 84	82 68	76 69	40 54	32 49	39 29	33 39
-Hydrothorax,	Males, .	1	-	-	-	-	-	-	.1	-	-
—Pleuritis, $\left\{ \right.$	Totals, . Males, . Females,	181 95 86	10 17	11 8	14 10	10 9	13 6	7	- 3 4	- 7 8	6
4. Pneumonia,	Totals, . Males, . Females,	4,703 2,480 2,223	266 238	266 270	339 305	377 292	268 216	149 116	91 104	78 44	106 91
5. Asthma,	Totals, . Males, . Females,	94 55 89	- 4 8	- 6 1	- 5 5	- 8 8	- 7 4	- 1 1	- 6 4	- 2 8	6
6. Lung Diseases,	Totals, . Males, . Females,	200 103 97	11 9	12 6	5 11	19 8	- 6 10	- 6 4	2 11	4 8	- 8 5
III. 4. Digestive Organs,{	Totals, . Males, . Females,	3,153 1,549 1,604	96 105	73 112	100 116	94 101	109 117	114 130	237 205	233 227	177 160
1. Gastritis,	Totals, . Males, . Females,	278 131 147	13 14	- 9 16	11 7	9 13	11 12	15 10	9 14	10 21	13 9
2. Enteritis,	Totals, . Males, . Females,	1,072 541 531	18 13	- 8 14	13 16	24 19	15 23	33 36	182 122	136 132	87 76
3. Peritonitis,	Totals, . Males, . Females,	587 230 357	13 38	12 28	17 29	13 28	26 36	13 87	29 28	24 29	18 28

Nosological Arrangement.

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October.	November.	December.	Under 1	1 to 20	28 to 38	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 30	80 to 40	40 to 50	50 to 60	60 to 70	70 to 80	Over 80	Unknown.
188 148	143 162	183 174	91 71	6 5	- 2 4	7 6	4	16 32	31 35	35 31	111 109	135 168	200 213	296 305	469 455	498 447	200 224	- ī
9 10	7 14	11 6	2 2	- -	- 1	ī	- 1 1	4	5 5	5 7	15 11	17 11	9 17	21 22	22 25	22 26	3 13	=
2	- 8 -	- 4 2	Ξ	=	-	=	=	-	=	1 -	14	4	- 7 1	14 4	- 8 3	- 5 2	- 2 3	=
10 6	9	- 2 5	- 1	=	-	ī	=	-	=	2 2	- 1 1	- 1 1	7 2	12 9	26 20	20 18	- 8 5	=
2 2	5 -	- 3 3	2	- -	-	ĩ	1 -	- 1 -	- 1 1	ī -	- 2	2 9	2 6	- 5 5	6	- 4 6	9	=
165 129	119 142	163 158	87 68	6 5	- 2 8	- 7 3	- 2 3	11 28	25 29	26 22	94 91	111 143	175 187	244 265	407 400	442 400	178 199	- ī
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
204 235	269 225	320 856	810 601	296 288	125 120	58 67	27 47	72 86	28 81	73 61	227 159	300 197	832 232	339 294	357 398	296 411	141 265	-
5	- 9 8	- 4 8	9 8	14 8	7 2	- 2 7	2 6	8 8	1 1	-	- 3 6	8 2	6 2	- 2 1	8	2	- 2	=
44 74	59 54	63 81	318 225	69 75	21 23	- 9 9	- 7 9	12 12	2 -	5 6	9 11	17 17	11 20	83 89	59 100	72 122	50 93	- 2
-	-	-	-	-	-	-	-	-	-	- '	-	-	-	-	-	1	-	-
4	4 2	- 6 8	6 3	4 3	2	1 1	=	1 5	2 2	7 9	12 12	17 6	14 13	14 6	10 7	5 12	- 6	=
187 140	177 152	231 265	472 355	204 200	95 92	45 49	18 81	58 61	18 27	59 41	189 117	237 157	284 182	265 226	268 271	192 256	81 156	- 2
7	5 4	- 3 3	4	ī	- -	=	Ξ	ī -	=	ī 1	2 -	- 7 2	6 7	- 8 6	9 7	18 8	- 8 4	=
7	15 10	18 11	6 6	3 2	- 2	1 1	1	20	5 1	1 4	12 18	19 13	11 8	17 16	- 8 13	11 13	7 4	=
114 126	98 116	104 89	537 418	79 72	29 28	10 18	- 8 10	32 38	36 21	43 33	98 127	81 152	113 126	140 184	159 148	134 162	48 71	2 1
14 11	- 4 11	13 9	26 18	2 2	3 1	8 3	2 -	4 3	- 2 2	- 1	1	6 16	16 15	15 24	16 19	24 22	8 17	=
32 39	24 25	19 16	372 315	60 59	16 10	- 3 5	- 3 4	9	5 2	5 5	5 14	10 13	10 7	- 8 24	12 21	12 19	11 23	- - 1
28 27	16 27	21 23	31 17	7 5	3 8	- 4	1 2	10 13	14 11	20 19	42 72	14 69	17 42	21 39	25 28	19 21	6 7	=

TABLE IX. — Continued.

IAE			10171		_						
	DEAT	HS.						ĺ			<u></u>
CAUSES OF DEATH.	SEX.	Totals.	January.	February.	March.	April.	May.	Jane.	July.	August.	September.
III. 4. Digestive Organs - Con.											
4. Appendicitis,	Totals, . Males, . Females,	120 88 87	7 4	8	4	8	7 2	5 1	8	13 4	10 6
5. Ascites,	Totals, . Males, . Females,	18 6 12	- 1	-	- - 2	2	1 8	2 1	=	- 1	=
6. Ulceration of Intestines, $\left\{ \right.$	Totals, . Males, . Females,	47 24 28	- 2	- 1 4	ī	- 2 1	2 2	ī	5 5	- 5 1	1 2
7. Hernia,{	Totals, . Males, . Females,	, 66 34 32	1 1	1 2	4 7	2 3	4	14	- 6 1	- 8 8	6
8. Ileus,	Totals, . Males, . Females,	180 57 78	- 8 6	8 2	- 8 5	4 3	5 9	5 5	9 8	7 7	7 5
9. Intussusception,	Totals, . Males, . Females,	23 15 8	ī 1	- - 1	=	1	=	2 2	3	ī 1	2 2 1
10. Stricture of Intestines, -											
— Stricture of Bowels, \cdot	Totals, . Males, . Females,	9 4 5	ī	- - 1	- 1	- - 1	=	- ī	2	1	=
-Stricture of Œsophs-	Totals, . Males, . Females,	11 6 5	ī -	=	- 1 1	- ī	- 2 1	1 2	-	=	ī
11. Fistula,	Totals, . Males, . Females,	7 4 8	-	=	- 1 1	ī	=	ī	- - 1	ī -	=
12. Stomach Diseases, etc., —			İ		İ						
$-$ Bowel Disease, $\Big\{$	Totals, . Males, . Females,	100 46 54	1 2	- 5 3	- 3 3	4 7	- 5 5	4 5	4 2	- 8 5	5 10
— Dyspepsia,	Totals, . Males, . Females,	21 12 9	1 1	ī -	- 2 2	ī	=	- - 1	2 -	1 1	1 2
—Stomach Disease, .{	Totals, . Males, . Females,	82 42 40	9 2	- 1 8	- 2 5	- 8 4	- 8 4	- 2 4	5 4	7	8
13. Hepatitis,	Totals, . Males, . Females,	96 42 54	2 3	- 5 3	- 5 10	2 6	- 2 4	- 8 2	6	5 4	- ī
14. Jaundice,{	Totals, . Males, . Females,	105 60 45	8 2	- 5 11	- 5 6	- 6 1	- 6 4	6 3	- 8 3	- 7 5	8 1
15. Liver Disease,	Totals, . Males, . Females,	381 212 169	17 16	14 16	28 21	17 18	20 11	20 16	15 12	9 12	20 14
III. 5. Urinary Organs,{	Totals, . Males, . Females,	2,408 1,349 1,059	121 81	118 90	118 97	115 78	116 83	105 89	113 97	108 100	114 87
1. Nephritis (Bright's Dis. ease, etc.),	Totals, . Males, . Females,	1,640 868 772	77 60	80 64	78 79	78 54	69 64	73 69	77 70	66 66	72 56

Nosological Arrangement.

=	_					NO		3.0			ange							
October.	November.	December.	Under I	1 to 3	8 5 8	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	Over 80	Unknown.
- 2 4	- 9 5	- 7 6	=	-	- -	-	2 2	- 6 6	9 8	10 6	26 12	12 8	- 5 8	- 6 -	5 1	1 1	1	=
3	=	111	-	=	=	=	-	=	Ξ	ī	=	ī	- 8	2 1	- 2	- 2 4	- 1	Ξ
4	- 3	2 8	=	Ξ	=	- -	=	ī	=	=	14	3 2	- 2 4	5	7 2	47	ī -	Ξ
2	8 2	1 8	9	ī	=	- -	=	=	- - 1	=	3 -	- 8 8	- 8 -	- 8 6	5 8	5 11	2 -	=
- 2 9	5 18	4 6	12 8	ī	- 2	ī -	=	1 2	2 2	3 -	2 6	- 8 4	5 11	11 10	7 10	5 14	- 4 8	=
3	2	1	6 2	1	1	-	-	- 2	ī -	=	=	-	- 8 -	ī -	ī	3	-	=
=	- ī	-	1	-	=	-	-	=	=	=	=	- 1	=	- 1 1	ī 1	1 2	:	=
=	-	-	=	ī	=	- -	:	=	=	=	- 1	- 1	3	- 1 1	- 1	=	- 1	=
=	- 1	111	-		-	1	-	=	=	:	=	- 1 2	=	=	ī	1 1	=	:
4 7	- 3 4	- 5 1	25 25 25	- 8 4	2 2	- 1	- 2	1 2	=	=	2 2	- ī	:	- 8 8	- 7 6	- 8 5	- 1	=
1 - 1 3	9	2	8 -	• • •	-	-	-	=	=	Ξ	ī	ī	1	2 2	2 1	1 5	2	=
	- 3 3	8 9	- 8 6	1	1	111		=	ī	Ξ	14	14	8	7 8	9 2	2 7	3 4	=
1 6	- 6 8	- 5 8	4 2	111	1 1	111		=	ī -	ī -	1 2	9 5	4 8	6 16	8 12	7 6	- 2	=
4 2	5 4	2	30 16	111	1		-	=	ī	2	-	1	3	3 8	7 8	8	5 8	=
16 14	16 13	20 11	10 5	2	1	2	:	ī	=	1 2	11 5	16 27	33 26	45 87	47 25	87 81	5	3
102 85	100 81	124 91	19 5	3	44	8	- 8 2	12 7	19 17	22 83	81 121	99 128	129 155	233 168	280 222	810 132	127 61	=
63	64 50	71 68	14 8	- 2 1	3	7 2	- 2 1	9 5	7 10	15 24	60 84	76 99	104 125	168 182	189 163	168 98	49 40	=

TABLE IX. — Continued.

		DEAT	HS.									1
	CAUSES OF DEATH.	Sex.	Totals.	January	February	March,	April	May.	June.	July.	August.	September.
III.	5. Urinary Organs - Con.											
	2. Diabetes,	Totals, . Males, . Females,	237 109 128	- 8 12	12 11	10 11	1 <u>1</u>	10 5	5 8	2 13	10 16	11 16
	3. Gravel, etc.,	Totals, . Males, . Females,	8 4 4	=	- - 1	ī	- -	- ī	=	- 2	ī -	1
	4. Cystitis,	Totals, . Males, . Females,	154 129 25	11	10 2	11	7	10 4	111	13 2	- 9 5	12 6
	δ. Kidney Diseases, etc., —	Totals, .	805	_	_	_	_	_	_	_		_
	- Kidney Disease,	Males, Females,	175 130	16 8	13 12	13	13 17	21	10 11	15 10	14 13	16
	- Disease of Prostate, .	Males, .	64	9	3	5	6	6	6	6	8	2
III.	6. Generative Organs,	Females,	111	6	8	12	11	14	4	6	11	4
	1. Ovarian Dropsy,	Females,	96	8	5	11	9	13	4	5	11	3
	2. Uterus Diseases, etc., —						'					
	— Uterus Disease,	Females,	12	2	3	1	2	1	-	1	-	1
	— Metritis,	Females,	3	1	-	-	-	-	-	-	-	-
III.	7. Organs of Locomotion,	Totals, . Males, . Females,	108 55 58	- 6 10	- 7 2	- 2 -	4 6	- 5 3	- 8 2	3 4	- 5 5	4 8
	1. Arthritis,	Totals, . Males, . Females,	6 5 1	1 -	ī 1	- -	- -	- -	2 -		- 1 -	- 1
	2. Joint Diseases, etc., —											
	- Hip Disease,	Totals, . Males, . Females,	14 7 7	2 2	ī -	ī 1	-	<u>-</u>	ī -	-	- 1	1 1
	— Necrosis,	Totals, . Males, . Females,	68 31 37	3 4	- 3 2	ī	- 4 5	- 2 3	4 1	- 2 4	3	2 6
	—Spine Disease,	Totals, . Males, . Females,	20 12 8	- - 4	- 2 -	=	- 1	3 -	ī 1	ī -	1	1
III.	8. Integumentary System,	Totals, . Males, . Females,	97 43 54	7	- 4 6	3 8	- 2 1	2 4	- - 5	1 5	3 8	5
	1. Phiegmon (Abscess),	Totals, . Males, . Females,	58 22 36	3 1	- 2 2	- 2 6	- 2 1	- 1 4	- 4	1 3	- 1 6	1 5
	2. Ulcer,	Totals, . Males, . Females,	13 8 5	1	- 1 2	=	- -	ī	=	=	- 2 1	2
	8. Skiu Disease,	Totala, . Males, . Females,	26 13 13	3	- 1 2	1 2	=	<u>-</u>	- -	- 2	- - 1	2

Nosological Arrangement.

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October.	November.	December.	Under 1	1 to 8	2 to 3	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 30	80 to 40	40 to 50	50 to 60	66 to 70	70 to 80	Over 80	Unknown.
10 10	- 9	11 10	=	ī	- 1 2	 - 	-	2	8 8	4 5	10 11	- 7 9	- 8 15	24 22	21 37	21 18	- 2 5	-
- - - 12 2	ī	-	111121	Ξ	=	=	-	=	=	=	- ī	- ī	-	1	1	11	11	
13 2	10	13	2 -	=	=	=	ī	- 1	ī	=	3	- 4 6	- 8 1	8 2	28 6	47	84 6	=
14 10	9 13	21 11	- 3 8	 - -	- ī	ī -	ī	1 1	- 8 4	- 8 4	9 25	11 18	14 14	27 12	88 26	47 18	22 9	-
3	7	8	-	-	-	-	-	-	-	-	-	1	-	5	8	81	19	-
12	11 11	12 10	-	-	-	-	-	-	1	8 2	18	25 19	84 80	10 8	12 12	8	4	-
11	11	10	-	-	-	-	-	-	1	2	17	19	30	8	12		4	-
-	-	1	-	-	-	-	-	-	-	1	1	4	3	2	-	1	-	-
1	-	1	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-
4 5	148	- 3 5	2 1	3 2	- 2 1	1	2 8	- 5 6	5 4	8 6	6	- 7 2	2 2	9 5	- 2 4	- 5 9	1 2	=
-	111	-	-				1	ī		- 1	2	ī	-	-	=	=	-	-
111	111	- 2	- 1		111			1	2	1 2	- 1 2	1		-	-	- 1	-	-
2	3 8	2 2	ī - 1	1 2 2	2 1	1	ī -	2 5	2 8	1 3	- 2 3	- 2 1	2 2	- 6 8	24	- 4 8	1 2	:
1	1	1	ī	1			8	1	1	1	1	8	-	- 8 1	=	1	=	:
- 7 5	- 8 2	6 3	15 7	2 8	1		=	- 1 1	ī	- 2 1	1 6	- 2 8	4 7	2 5	- 5 8	5 4	3 2	=
3	2	- 1	- 6 8	1 3	=		=	- 1 1	- 1	2	1 6	1 5	2 6	2 2	1 5	4 2	1	=
1	-	-	=			-	=	-	=			1 1	2	- 2	2 1	ī 1	2	:
3 2	1	2 2		1	1	=	-	-	-	=	=	- 2	- 1	- 1	2 2	ī	1	:

TABLE IX. — Continued.

TAB	LE IA.	— Coi	ntin	uea	l.			_	_		_
•	DEAT	R8. ·									£
CAUSES OF DEATH.	SEX.	Totals.	January.	February	March.	April.	May.	June.	July.	August.	September.
DEVELOPMENTAL DISBASES, .	Totals, . Males, . Females,	4,955 2,387 2,568	164 209	178 191	193 226	208 210	214 216	168 193	233 228	251 241	211 256
IV. 1. Developmental Diseases of Children,	Totals, . Males, . Females,	1,560 909 651	68 56	72 33	69 55	77 56	78 58	81 59	82 66	92 52	73 61
1. Infantile, etc., —	_								ĺ		ļ
— Infantile, $\left\{ \right.$	Totals, . Males, . Females,	208 126 82	10 7	4 7	15 3	13 5	8 6	15 8	12 12	14 10	9
—Premature,	Totals, . Males, . Females,	1,116 649 467	46 40	56 20	- 46 88	56 46	56 43	58 44	59 44	61 35	56 49
2. Cyanosis,	Totals, . Males, . Females,	78 46 32	- 3 4	4 2	3 6	- 8 2	5 2	3 -	5 1	7 4	2 2
3. Spina Bifida,	Totals, . Males, . Females,	44 23 21	- 2 1	- 4 3	- 3 3	1 2	4 2	2 2	2 2	- - 1	- - 1
4. Other Malformations, \cdot	Totals, . Males, . Females,	44 30 14	3 1	2	2 2	1	- 3 3	5	1 1	1 -	4
5. Teething, $\left\{\right.$	Totals, . Males, . Females,	70 35 85	4 3	2	- 3	8 -	2 2	3 5	- 8 6	- 9 2	- 2 6
IV. 2. Dev. Diseases of Adults, .	Females,	248	21	27	32	21	22	19	25	17	16
1. Paramenia,	Females,	4	-	_	1	-	_	-	-	1	-
2. Childbirth, etc., —		1							ľ		
-Abortion,	Females,	5	1	1	_	-	-	١.	-	1	1
—Childbirth,	Females,	212	16	26	26	21	20	18	21	18	13
- Miscarriage,	Females,	19	4	_	8	_	-	1	2	2	2
-Puerp. Convulsions, .	Females,	8	-	_	2	-	2	_	2	-	-
IV. 8. Developmental Diseases of Old People, —											
1. Old Age,	Totals, . Males, . Females,	1,739 734 1,005	51 84	68 91	65 95	65 81	75 93	42 67	67 58	67 93	56 107
IV. 4. Developmental Diseases			l								
of Nutrition,— 1. Atrophy and Debility, .{	Totals, . Males, . Females,	1,408 744 664	45 48	38 40	59 44	66 53	61 43	45 48	84 79	92 79	82 72
VIOLENT DEATHS,	Totals, . Males, . Females,	2,354 1,763 591	111 45	124 37	101 42	130 49	152 38	142 51	183 50	246 91	156 42
V. 1. Accident or Negligence, .	Totals, . Males, . Females,	2,061 1,529 532	95 41	109 32	- 89 40	110 43	128 34	124 47	170 46	226 87	119 33
1. Fractures, etc., — — Fractures,	Totals, . Males, . Females,	216 141 75	9	5 5	- 4 5	18 3	12	- 6 5	26 4	11 8	10 7

Nosological Arrangement.

_					_	7408	ow	gica	u A	1770	inge	neru	••					_
October.	November.	December.	Under 1	1 to 3	. B to 8	8 55 4	4 10 5	5 to 10	10 to 15	15 to 20	20 to 30	80 to 40	40 to 50	30 to 60	60 to 70	70 to 80	Over 80	Unknown.
194 223	167 177	206 198	1,588 1,212	18 24	44	- 1 2	- 2	- 1 2	- 1 1	13	- 8 184	6 99	8 38	18 20	46 71	218 265	480 679	- - 2
66	71 44	80 52	899 639	8 10	2	- 1	-	-	-	-	=	=	=		-	-	=	=
7	- 8 7	11 5	126 82	111				-			-	=	=	-	-	-	- -	-
49	54 81	57 88	649 467	111							-	-	=	=	-	-	-	
8 1	1 92 83	6	46 82	-			-	=	-		=	=	=	=	-	-	-	-
3 3	1 1	1	22 19	ī 1	=	- 1	-	=	=	-	-	-	-	=	-	-	-	-
1 8	4	8	30 14	Ξ	=	Ξ	=	=	=	Ξ			=	-	=	-		-
3 5	2 1	2 1	26 25	7 9	2 1	=	=	=	=	=	-	-	-	-	:	-	-	-
20	14	14	-	-	-	-	-	-	-	11	125	92	20	-	-	-	-	-
1	-	1	-	-	-	-	-	-	-	1	1	-	2	-	-	-	-	-
-	1	-	-	-	-	-	-	-	-	-	8	2	-	-	-	-	-	-
16	11	12	-	-	-	-	-	-	-	8	109	78	17	-	-	-	-	-
8	1	1	-	-	-	-	-	-	-	-	8	10	1	-	-	-	-	-
1	1	-	-	-	-	-	-	-	-	2	4	2	-	-	-	-	-	-
36 85	48 68	74 88	-	Ξ	=	:	=	:	=	=	=	-	-	:	36 59	218 265	480 679	- 2
72 68	48 51	52 49	689	10 14	2 8	1 1	2	1 2	1 1	2	3 9	6 7	- 8 18	18 20	10 12	=	=	-
139 54	124 44	156 48	108 73	31 20	26 11	22 20	15 18	65 27	70 12	64 16	880 67	324 63	240 45	191 52	119 42	88 67	28 57	47
118 46	102 41	139 42	106 78	81 20	25 11	22 20	15 18	65 26	70 12	59 11	296 50	276 58	188 85	148 45	91 87	69 64	25 56	48 1
18 9	16 11	114	1 1	=	- 2 1	1 1	- 1	5 4	6 1	4 1	19 2	33 8	24	16 2	1 <u>1</u>	14 26	- 4 23	i

TABLE IX. — Continued.

IAB	ILE IA.	_ 00	7617	uec	١٠	_					
	DRATI	H.S.		<u> </u>							1
CAUSES OF DEATH.	SEX.	Totals.	January.	February	March.	April.	May.	June.	July.	August.	September.
V. 1. Accident or Negligence-Con.											
$-$ R. R. Accidents, $\left\{ ight.$	Totals, . Males, . Females,	300 280 20	26	19	2 <u>1</u>	15 4	26	16 8	32 8	21 3	26 1
- Electric B.R. Accidents,	Totals, . Males, . Females,	9 8 1	ī	Ξ	=	- 2 -	=	1 -	- 1	1 -	=
2. Casualty, . ·	Totals, . Males, . Females,	488 374 114	19 7	29 6	22 12	29 8	29 9	28 10	48 14	29 19	89 7
3. Burns and Scalds, $\left\{ \right.$	Totals, . Males, . Females,	185 88 102	- 6 6	- 7 6	10 6	12 11	10 7	- 2 11	4 11	5 5	5 6
4. Polson,	Totals, . Males, . Females,	68 44 19	- 2 4	- 4 2	- 1 1	- 5 1	4 8	- 4 1	7	- 4 1	- 5 1
5. Drowning, etc.,— — Drowning,	Totals, . Males, . Females,	276 249 27	10 1	6 1	4	16 5	28 1	- 39 8	35 2	49 10	26 2
— Lost at Sea,	Males, .	64	9	15	8	3	8	15	-	1	-
6. Suffocation, etc.,— — Strangulation,	Totals, . Males, . Females,	12 8 4	1	- 1 1	-	ī	- - 1	=	- 1 1		ī
—Suffocation,	Totals, . Males, . Females,	191 118 78	11 8	16 5	12 9	9	- 8 3	9 5	11 4	6	- 2 5
—Illuminating Gas,	Totals, . Males, . Females,	20 11 9	- 1	-	4	11	1 1	111	ī	=	=
7. Otherwise, —							1	ı			
— Electric Shock,	Males, .	3	-	1	-	-	-	-	1	-	1
— Amputation,	Totals, . Males, . Females,	10 6 4			1	=	1	1	=	2	1 2
—Exposure,{	Totals, . Males, . Females,	11 9 2		8	8	=	=	=	=	=	ī '
—Freezing,	Males, .	1	-	-	1	-	-	-	-	-	-
Heat	Totals, . Males, . Females,	135 107 28		=	=	ī	1	2	6	96 27	2
- Lightning,	Males, .	1	-	-	-	-	-	-	-	-	-
. — Starvation,	Totals, . Males, . Females,	8 1 2	ī	=				-	=	=	:
- Surgical Operation, .	Totals, . Males, . Females,	78 21 52	-	8 4	3 7	3 4	1 8	- 7	4	2 6	- 2
7. 2. Infanticide,	Males, .	2	-	-	-	1	-	-	-	-	1

Nosological Arrangement.

								3			unye	men						
October.	November.	December.	Under 1	I to S	3 to 3	8 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 30	30 to 40	40 to 50	30 to 60	60 to 70	70 to 80	Over 80	Unknown.
27 2	24 2	27 1		ī -	-	1	2 2	- 5 8	- 8 1	- 5 -	- 84 4	73 2	42 2	30	21 1	- 4 1		-
ī	ī	- 1 -	=	=	=	-	ī -	=	- -	-	1	2	:	3		1	ī	=
37 8	24 7	46 7	- 8 4	- 6 5	- 1 2	- 8 1	- 8 4	18 5	13 1	25 -	69 12	66 9	50 4	40 11	31 11	83 22	13 23	=
2 12	9	11 13	- 3 3	12 7	16 7	13 13	6	5 11	- 8 5	- 1 3	- 6 6	4 8	4	- 2 11	2 2	4 5	2 8	-
3 1	1 2	4 2	1 2	- 8 8	3 -	1 2	:	ī	=	- 1	- 7 2	8	6	10 1	5 3	-	ī	=
13	- 9 1	14	2	3 3	4 1	2 2	- 2 2	31 1	36 2	20 8	- 61 8	- 82 2	24 2	19 3	5 2	- 2 -	2	4
1	1	8	-	-	-	-	-	-	-	-	18	12	2	-	3	-	-	84
	2	- 1 -	4 2	-	-	-			1	-	ī 1	- 1 1		ī 1	111		- 1	=
13 4	9	12 12	88 58	4	-	1	1 1		ī 1	- 2 2	- 8 4	6 2	- 2 2	7	- 1 -	2	:	- ī
-	•	- -	-	- 1	-		111	111	=	-	14	1 2	3	4	2 1	1	-	-
-	-	-	-	-	-	-	-	•	-	-	1	2	-	-	-	-	-	-
-	1	- 1	-	-	-	-	-		=		2	-	3	- 2	1	ī	- 1	=
	-	2	- 1	-	-	-			-		- 6 -	-		2	- 1	1	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
1	-	=	2	2 1		-	111	ī -	1	2	20 8	80 6	24 5	10	7 2	7 5	18	- -
	-	-	1		1 111	-			1 11		-	-		- - 1	1 - 1	-		
- 2	1 5	1 - 2 1	- 1 1		1 1 1	-		1	1	-	- 2 10	- 6 15	- 4 9	1 - 4 9	1 - 1 4	- - 3	2	-
-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE IX. — Concluded.

	DEAT	RS.									
CAUSES OF DEATH.	Sex.	Totals.	January.	February.	March.	April.	May.	June.	Jaly.	Angust.	September.
V. 3. Homicide,	Totals, . Males, . Females,	19 13 6	1 -	- 1	-	8 -	=	ī 1	-	-	3 2
V. 4. Suicide,	Totals, . Males, . Females,	268 214 49	15 4	14 4	12 2	14 6	24 4	17 8	18 8	20 4	32 6
Suicide Illuminating Gas, . {	Totals, . Males, . Females,	8 4 4	-	-	-	2	-	- -	- 1	-	111
V. 5. Execution,	Males, .	1	-	1	-	-	-	-	-	-	-
CAUSE NOT SPECIFIED,	Totals, . Males, . Females,	494 285 259	19 23	20 14	30 26	22 18	17 41	20 19	17 22	18 26	19 12
Hemorrhage,	Totals, . Males, . Females,	111 57 54	5	4	11 7	8 8	5 10	1 2	- 4 1	2 4	- 8 5
Inflammation,	Totals, . Males, . Females,	8 1 2	-	- -	1 1 1		ī -	-	- 1	-	=
Tumor,	Totals, . Males, . Females,	96 15 81	- 1 7	- 2 5	1 9	7	1 15	24	1 9	2 5	- 2 1
Unknown,	Totals, . Males, . Females,	284 162 122	18 7	14 5	18 10	19 8	10 16	17 13	12 11	14 17	14 6

Nosological Arrangement.

							-	-			- 3	men						
October.	November.	December.	Under I	# to #	S to 3	2 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 20	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	Over 80	Unknown.
2	- 2 1	1	-	=	1	Ξ	=	- 1	:	=	- 4 1	8 2	- 2	8 -	ī -	1	-	- :
18	20 1	15 5	-	=	=	=	=	=	=	- 5 5	29 14	43	51 8	40 7	26 5	18 8	3	1
1	ī		-	=	=	-	-	=	=	=	2	3	1 -	•	1	-	•	=
-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
23 15	12 21	18 22	98 69	6	2 2	5	ī -	1	1 8	7 6	- 0 18	19 17	17 20	24 48	18 34	25 25	4 5	8 2
9	6	4 6	26 20	ī	-	1	-	-	-	- 8 2	5	5	4 6	6	5	8	- 1	=
ī	-	=	1	=	-	-	-	-	=	=	- 1	-	-	:	=	=		=
2	1 6	8	2 -		ī -	3		111	- 1	- 3		1 9	2 13	1 26	16	70	- 8	=
12 8	5 12	14 9	64 48	6 5	1 2	2	1	1	1 2	4 2	44	18 8	11 12	17 11	12 16	15 13	4	- 8 2
=																		

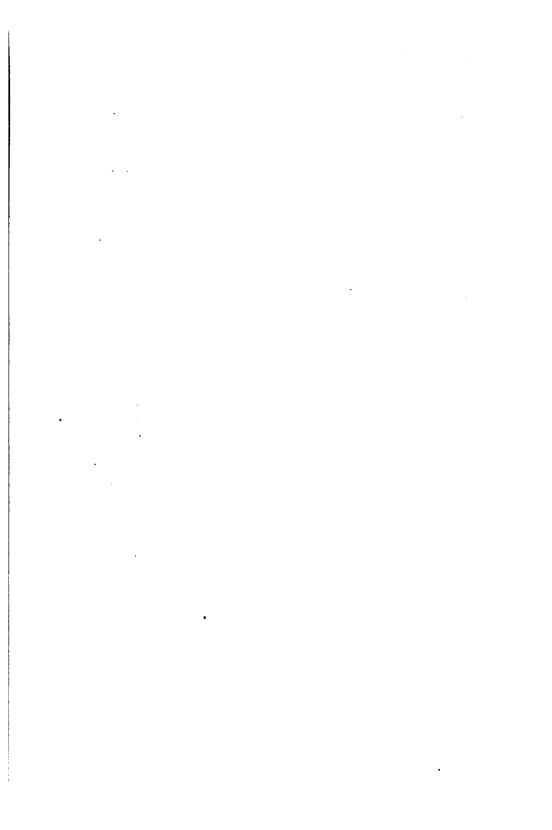


Table X.

CAUSES OF DEATH,

NOSOLOGICALLY ARRANGED

(BY COUNTIES).

TABLE X. — CAUSES OF

Exhibiting the Number of Deaths in Each County, from

CAUSES OF DRATH.	STATE.	Barnstable.	Berkshire.	Bristol.
All Causes,	49,381	584	1,547	4,985
(CLASSES.) I.— ZYMOTIC DISEASES	8,527 9,648 23,403 4,955 2,354 494	70 102 295 82 27 8	289 262 768 141 81 6	979 913 2,280 628 148 87
(ORDERS.) I.— 1. Miasmatic Diseases,	7,988 282 253 4	60 7 3 -	273 9 7 -	929 84 14 2
II.—1. Diathetic Diseases,	2,283 7,365	41 61	83 179	201 712
 Diseases of Nervous System, Diseases of Organs of Circulation, Diseases of Respiratory Organs, Diseases of Digestive Organs, Diseases of Urinary Organs, Diseases of Generative Organs, Diseases of Organs of Locomotion, Diseases of Integumentary System, 	6,584 4,206 6,736 3,153 2,408 111 108 97	102 61 55 81 44 -	232 126 242 107 53 2 5	697 365 632 353 212 7 6
IV.—1. Dev. Diseases of Children,	1,560 248 1,739 1,408	9 4 62 7	40 4 67 30	170 15 144 299
V.—1. Accident or Negligence,	2,061 2 19 271 1	28 - - 4 -	77 - - 4 -	135 - 1 12 -
Sudden (cause unascertained),	-	-	-	-
Causes unknown or ill-defined,*	494	8	6	37

[•] Including 111 deaths from "Hemorrhage," 96 from "Tumor," 3 from "Inflammation," and 284 deaths of which the cause was not stated in Returns.

DEATH. — (Nosological Arrangement.*)

Specified Causes (statistically classified), during the Year 1896.

				_==			===			
Dukes.	Essex.	Franklin.	Hampden.	Hampshire.	Middlesex.	Nantnoket.	Norfolk	Plymouth.	Buffolk.	Worcester.
98	6,295	642	2,859	931	9;445	84	2,230	1,854	12,449	5,378
13 12 57 19 2	1,116 1,153 2,959 677 303 87	70 115 325 82 46 4	527 487 1,352 290 173 30	122 169 480 102 50 8	1,648 1,856 4,509 938 389 105	8 16 48 12·	329 448 1,102 221 94 86	847 839 887 188 60 33	2,209 2,747 5,753 919 730 91	800 1,029 2,588 663 251 47
12 1 -	1,034 41 41 -	58 9 3	510 18 4 -	118 3 •1 -	1;575 48 • 25	7 1 - -	316 4 9 -	326 13 • 8	2,012 81 115	758 18 23 1
6	306 847	50 6 5	128 364	42 127	·429 1;427	6· 10	109 339	83 256	535 2,212	269 760
14 15 16 6 6 -	891 591 787 361 291 16 13	94 69 76 41 35 - 4 3	391 177 380 219 166 7 4 8	162 92 114 52 54 1 1	1,339 •830 1,261 •544 476 18 • 24 17	15 8 8 9 8 -	336 222 261 145 116 5 6	261 •219 170 123 101 7 • 3	1,283 956 2,067 844 565 39 29 20	817 475 667 315 281 9 13
2 - 9 1	195 32 250 200	17 3 50 12	128 20 57 85	\$1 5 49 17	269 43 346 280	4. 7. 1.	63 8 119 31	41 11 112 24	376 78 232 233	215 25 235 188
2 - - - -	263 1 2 37 -	39 - - 7 -	160 - 1 12 -	47 - - 3 ·-	842 - 1 • 46	1111	81 - - 13 -	45	619 - 14 96 1	228 1 - 22 -
2	87	4	30	. 8	.105		36	. 33	91	47

[•] See "Statistical Nosology."

TABLE X. - Continued.

			ABLE	Α.		OH OH	uucu.			
CAUSES OF DEATH.							STATE.	Barnstable.	Berkahire.	Bristol.
I. — 1. Miasmatic,										
Totals,	•	•	•	•	•	•	7,988	60	273	9 29
1. Chicken-pox,							1	_	-	1
2. Small-pox,	•		•		•	•	-	-	-	.=
3. Measles, .	•	•	•	•	•		137	-	16	16
4. Scarlatina,	•	•	•	•	•	•	249	2	2	23
5. Diphtheria,		:		•	•	•	1,324	4	35	87
6. Cerebro-spins	T IME	enin	gius,	٠	•	•	108 85	-	5 2	9 5
7. Quinsy, .	•	•	•	•	•	•	358	2	17	50
8. Croup, . 9. Whooping-cou	a æb	•	•	•	•	•	282	1	7	32
J. W Hooping-co	ngıı,	•	•	•	•	•	202		•	02
10. Typhoid Feve	r.*						728	7	41	63
11. Erysipelas,	-,		·	·	•		166	8	8	10
12. Metria (Puer	oeral	Fe	ver),		•		80	-	1	4
13. Carbuncle,	•		•				7	-	-	1
14. Influenza,	•	•	•	•	•	•	150	4	9	11
15. Dysentery,							407	9	7	21
16. Diarrhœa,					•		604	4	17	56
17. Cholera Infar	itum	, .					2,957	23	84	496
18. Cholera, .	•	•	•	•	•	•]	103	1	4	4
10 A							40		2	3
19. Ague,		•	•	•	•	•	46 43	_	2	9
20. Remittent Fer 21. Rheumatism,		•	•	•	•	•	263	_	14	28
21. Itticumatism,	•	•	•	•	•	•	200	-	17	20
I. —	- 2.	Enti	hetic.							
Totals,	•	•	•	•	•		282	7	9	34
1. Syphilis, .							76	_	_	11
 Stricture of T 	reth	ra.		•			5	_	_	
3. Hydrophobia,		,	•				2	_	_	_
			•		•		1	_	_	-
5. Malignaut Pu	ıstul	θ,.					1	-		-
6. Septicæmia,	•	•	•	•	•	•	197	7	9	23
		.								i
Totala	— 3 .	Dı	euc.				950	3	7	14
Totals,	•	•	•	٠	•	•	2 53	0		
1. Privation,	~•	•	•	•	•		2	-	1	1
2. Purpura and	Scur	٧у,		•	•	•	56	1	_	8
3. Delirium Tre 4. Intemperance	men	s, (Alco	holis	m,.	•	195	2	6	10
_			asitic.							
Totals,	- -			•	•		4	-	_	2
1. Thrush,			_			_	2	_	_	1
2. Worms,	:	:	:	:	•	:	2	_	-	î
							<u></u>	<u> </u>	<u> </u>	<u> </u>

[•] Including "Fever," Typhus Fever, Continued Fever, and "Bilious" Fever.

Nosological Arrangement.

			210	snogu	ut Aii	синует	166166.			
Dakes.	Lstex.	Frankilo.	Hampden.	Hampshire.	Middlesex.	Nantucket.	Norfolk.	. Plymouth.	Buffolk.	Worcester.
12	1,034	5 8	510	118	1,575	7	316	826	2,012	758
	_							_		_
-	_	-	-	-	_	-		-		_
3	24	2	7	1	23	_	7	3 7	132	16
1	175	2	56	10	215	1	51	7 24 5	545	118
3 1	21 24 175 12 2 38 38	- - 2 2 1 2	6 7 56 12 5 44 17	2 1 10 - 12 1	22 23 215 20 7	1 - 1	3 7 51 4 1 10 8	-	39 132 545 24 7 50 81	9 16 118 16 4 45 13
-	38	- 1	44	12	77 75	-	10	- 8 7	50	45
					•	•		,	I	
1 -	100 21 3 1	5 1 2	33 8 4	8 1 -	166 41 2 2	-	38 5 4	28 8	179 45 6	54 15 4
_	8	2	4	_	2	111	4	-	6	4
			-		1	-	-		l	
1	16	9	11	5	43	-	9	. 9	11	12
1	42	3 2 23 2	10	. 8	77 106 613 22	-	28	118 21 73 6	50 126 631 20	33 70 294 11
1 1 1	101 379 21	23	55 203 6	8 15 43 2	613	4 1	28 26 93 3	73	631	294
ī	21	2	6	2	22	-	8	6	20	11
_	2	-	5	2	10	-	5	3 1	8	6 2 36
1 1	2 2 36	- 1 2	5 5 23	2 2 6	10 17 37		5 1 20	1 5	- 55	2 36
- 1		-			"					
1	41	9	13	8	48	1	4	13	81	18
1	8	-	1	-	9 4	-	1	1	44	1
-	1	_	_	_	1	-	_	-	-	_
-	-	- - 1 - 8	1 - - - 12	- - - - 3	-	-	1 - - - 8	-	-	
- - - 1	1 - 1 81	8	12	3	- 34	1	8	- 12	- 37	1 1 - - - 16
_										
-	41	8	4	1	25	-	9	8	115	28
-	9	- 1	- 1	-	- 8	-	- 3	- 1	- 24	5
-	32	2	3	1	17		6	7	91	18
-	32				•		١	• !	91	10
_	_	_	_	_	_	_	_	_	1	1
_	_	-	-	-	_	-	_	-		1
-	-	-	-	-	-	-	-	-	1	-
	<u> </u>	<u> </u>	<u></u>				<u> </u>		 	

TABLE X. - Continued.

c	AUSES (or D	BATH.				STATE.	Barnstable.	Berkshire.	Bristol.
II	— 1. .	Dia	helic.	,						
Totals,							2,283	41	83	201
1. Gout,								-	-	-
2. Dropsy,	•	•	•	•	•		122	4	9	14
2. Dropsy, . 3. Anæmia, . 4. Cancer, . 5. Canker (Nom 6. Mortification,	•	•	•	•	•	•	231	4	4	19
4. Cancer,		•	•	•	•	•	1,798	32	65	160
o. Canker (Nom	a),	٠	•	•	•	•	12	1	5	1
6. Mortification,	•	•	•	•	•	•	120	1	8	7
II. —	- 2. T	uber	rcula	r.						
Totals,	•			•			7,365	61	179	712
1. Scrofula, .						.	102	1	6	7
2. Tabes Mesent	erica,						1,194	9	18	180
3. Phthisis (Con-	sump	ion	of L	ungs)	, .	.	5,536	49	149	496
4. Hydrocephalu	s (Tu	ber	cular	Men	ingit	is),	533	2	6	29
III. — 1	. Ner	vou	s Sys	tem.						
Totals,	•		•	•			6,584	102	232	697
1. Cephalitis,. 2. Apoplexy,. 3. Paralysis, . 4. Insanity, . 5. Chorea, . 6. Epilepsy, . 7. Tetanus, . 8. Convulsions,	•						1,538	11	65	165
2. Apoplexy, .	•	•	•	•	•	•	2,035	21	80	177
3. Paralysis, .	•	•	•	•	•	•	1,192	38	47	101
5. Insanity, .	•	٠	•	•	•	•	238	2	6	86
a Enilopey	•	•	•	•	•	•	141	2	4	20
7 Tetanus	•	•	•	•	•	٠,	29		ī	3
8. Convulsions,	•	•	•	•	•		836	10	19	160
9. Brain Disease	s, etc.	, :	·	:	÷		575	18	10	35
III.—2. <i>0</i>	raan	of	Circ	u lati o	n.					
Totals,	-	•					4,206	61	126	365
1. Pericarditis,	•		_	_	_		272	G	5	26
				•	•		63	<u> </u>	5	6
z. Aneurism, . B. <i>Heart Disease</i>	s, elc.,			:	•		3,871	55	116	333
III. — 3.										
Totals,			٠.	•	•		6,736	55	242	632
1. Epistaxis, . 2. Laryngitis, 3. Bronchitis, 4. Pleurisy, . 5. Pneumonia, 6. Asthma							_	_	_	_
2. Laryngitis.	•				•		105	_	_	21
3. Bronchitis,						.	1,452	8	67	172
4. Pleurisy, .							182	1	2	18
5. Pneumonia,			•				4,703	42	160	3 88
6. Asthma, . 7. Lung Diseases						.	94 200	1 3	6	11
									7 1	22

[•] Including 851 cases of Cancer part not stated, 367 Cancer of Stomach, 14 Cancer of Bowels, 200 Cancer of Liver, 213 Cancer of Uterus, 128 Cancer of Breast, 7 Cancer of Kidney, 16 of Epithelioma, — Cancer of Pancreas, and 2 Cancer of Spleen.

Nosological Arrangement.

				cotogu	ш Д/1	ango.	7007001			
Dukes.	Essex.	Franklin.	Hampden.	Hampshire.	Middlesex.	Nantucket.	Norfolk.	Plymouth.	Suffolk.	Worrester.
			l							
6	3 06	50	123	42	429	6	109	83	535	269
- 1	-	-	-	_	-	-	-	-	_	_
- 1 5 -	25 26	6 7	4 12	7 3	16 57	_	3 10	3 9	15 49	16 30
5	235	84	103	29 1	328	6	85	66	445	205
=	20	3	- 4	1 2	2 26	· -	8	- 5	4 22	1 17
	20		•			_			. ~	
6	847	65	364	127	1,427	10	389	256	2,212	760
	9	2	7	4	1 -		2	5	32	
1	153	9	55 276 26	3	15 249	2 8	57	37	944	11 77 628
4	612 73	50 4	276 26	113 7	1,076	8	261 19	196 18	1,618 218	628 44
		_		·						
14	891	94	391	162	1,339	15	336	261	1,233	817
	167 263	17	124	27	340	1	78	45	935	162
6	263 233	17 42 17	124 104 41	53 28	395 242	2 7	95 59	84 77	442 158	271 142
1 6 2 1	24	3	9	16	36	i	18	4	32	50
-	21	1	11	- 6	19	1	- 5	- 4	- 14	33
	4 118		1	6 2	4		5	1	8	
- 1 3	113 66	- 5 9	68 33	14 16	174 129	2	33 43	25 21	128 121	89 70
	00		00	10		•	70	21	121	10
15	5 91	69	177	92	830	8	222	219	956	475
_	20	5	14	2	1	5	14	4		10
_ 15	7	1	5 158	88 88	56 11	-	1	2	105 19 832	461
15	564	63	158	88	763	. 8	207	213	832	461
16	787	76	380	114	1,261	8	261	170	2,067	667
-	- 8	- 2	11	8	22	_	- 1	2	20	15
6	164	2 14	79	30	283	1	60	40	20 394	15 134
- 6 1 8	22 565	58	8 261	69	283 39 863 22	7	6 182	107	58 1,522 22	20 471 9
1	6	1	7	69 3 5	22	-	2	5	22	9
1	22	1	14	5	32	-	10	9	56	18
		<u> </u>	<u> </u>	<u> </u>	<u> </u>	١		<u> </u>	1	

TABLE X. — Continued.

		17	BLI	E X	<u> </u>	onu	nuea.			
CA	USES O	P DEA	TH.				STATE.	Barnstable.	Berkshire.	Bristol.
III. — 4.	Dige	slive	Or	gans.						
Totals,		•			•		8,158	81	107	353
1. Gastritis, .							278	2	19	34
2. Enteritis, .		•		•			1,072	5	18	185
3. Peritonitis,	•	•		•		•	587	2	21	57
4. Appendicitis,	•	•	•	•	•	•	120	1	1	4
5. Ascites, .	T. 4	. .	•	•	•	•	18	1	2	2 2
6. Ulceration of	intes	tines	3, .	•	•	•	47 66	1	4	8
7. Hernia, . 8. Ileus, .	•	•	•	•	•	•	130	2	4	14
9. Intussusception	on.	•	•	•	•		28	_	2	2
10. Stricture of In	ntesti	nes.	·	•			20	1	_	_
11. Fistula, .				•			7	-	1	_
12. Stomach Dise	ases,	etc.,		•	•		203	5	9	7
13. Pancreas Disc	ease,		•	•	•	•	-	- 1	_	-
14. Hepatitis,	•	•	•	•	٠.	•	96	4	8	6
10. Jaundice, .	•	•	•	•	•	• [- 105 381	7	2 16	3 29
 Liver Disease Spleen Disease 		, •	•	• .	•	•	901	_	10	29
11. Spicen Diseas	,	•	•	•	•	•	_	-		_
777 8	77	• •	Δ							
III. — 5.	UTIT	iary	Org	jans.						
Totals,	•	•	•	•	•	•	2,408	41	58	2 12
1. Nephritis (Br	ight's	Dis	ease	etc.)		.	1,640	23	84	150
2. Ischuria, .	·			· . ´	•	.	· -	_	-	-
3. Diabetes, .				•		•	237	8	8	14
4. Calculus (Gra	avel,	etc.)	•	•	•	•	8	1	_	2
5. Cystitis, .	•	•	•	•	•	•	154	1	6	12
6. Kidney Disea	ses, ei	c.,	•	•	•	•	369	12	5	3 4
	~		_							
III — 6.	Gener	rativ	e U	gans.						_
Totals,	•	•	•	•	•	•	111	-	2	7
1. Ovarian Drop	sy,	•		•			96	-	2	6
2. Uterus Diseas	es, el	c.,	•	•	•	•	15	-	-	1
TIT 7 0		ر د د	- 0.00	m olice						
III.—7. Of			JUCO	ากบเนา	٠.		400			
Totals,	•	•	•	•	•	•	108	-	5	6
1. Arthritis, .	•	:	•	•	•	•	100	-	2	- 6
2. Joint Diseases	s, etc.,	_	•	•	•	•	102	-	3	В
III. — 8. <i>In</i>	temm	nenti	7421	Suglan	2_		ļ			
	.cyu11	v-/81(•	Ny overi	••		077		4	
Totals,	•	•	•	•	•	•	97	2	1	8
1. Phlegmon,	•	•	•	•	•		58	2	1	1
2. Ulcer, .	• .	•	•	•	•	•	13	-	-	2
3. Skin Diseases	, elc.,	•	٠	•	•	•	26	-	-	5
						ı	1			

^{*} Including 20 Disease of Spine, and 14 Hip Disease.

Nosological Arrangement.

						ungen				
Dukes.	Essex.	Franklin.	Hampden.	Hampshire.	Middlesex.	Nantucket.	Norfolk.	Plymouth.	Buffolk	Worcester.
6	361	44	219	52	544	9	145	123	844	315
-	124	8 14 9	77	16	191	3	16 47	32	287	29 73 70 11
1	24 124 67 18 1 8 9 16 4 2 - 84	8	25 77 30 4 8 - 4 8 1 18 - 10 7	2 16 13 4 - 1 1 - 2 - 4 26	43 191 96 19	1 8 1 1	24 3 1 2 3 7 2	9 32 26 12 1 3 - 4 - - 9 - 2 5 20	65 287 172 40 3 6 16 34 5 5	11
	1 8	1	8	-	12	-	1 2	1 8	8	3 10 10 13 2 2 1 25
-	9	-	4	î	10 25	1	3	-	16	10
- 1	16 4	_	8	-	1	8 -	7 2	4	54 5	13 2
-	2	-	8	1	6	-	_	-	5	2
-	34	2	18	2	85	-	8	9	49	25
-	- 4 16 84	8 1 - - - 2 - 7	10	-	_	-		- 0	30 23 105	
=	16	_	7	2	18 27 59	1	5 5 22	5	23	5 14 47
4	34	7	25	6	59	-	22	20	105	47
_				_						
6	2 91	35	166	54	476	8	116	101	565	281
2	201	25	118	83	322	7	80	59	389	197
2	25	3	· 10	7	48	1	12	12	51	36
2 - 2 - 2 -	22 43	- 2 5	1 16 21	7 1 4 9	27 79	1 -	- 5 19	9 21	51 8 32 90	36 1 16 31
	43	5	21	9	79	_	19	21	90	31
_	16	_	7	1	18	_	5	7	39	9
_	11 5	_	7	1	17 1	-	3 2	7	34 5	8
-	5	-	-	-	1	-	2	-	5	1
		l				ĺ				
-	18	4	4	1	24	-	6	3	29	18
_	1 12	- 4	- 4	- 1	-	-	- 6	-	3 26	13
-	12	4	4	1	24	-	6	8	26	13
			}		1					}
-	9	3	8	4	17	-	11	8	20	11
-	7	3			12	-	8	_		6
-	7 1 1	=	1 1 8	2 1 1	12 3 2	-	3	1 2	12 3 5	6 1 4
İ		<u> </u>	<u> </u>	<u> </u>	<u> </u>				<u> </u>	<u> </u>

TABLE X. - Concluded.

CAUSES OF DEATH.	STATE.	Barnstable.	Berkahira.	Bristol.
IV. — 1. Dev. Diseases of Children. Totals.	1,560	9	4 0	170
1. Infantile, Premature, etc.,*	1,324	5	34	148
2 Cyanosis,	78	1	2	7
3. Spina binga.	44	-	1	4
4. Other Malformations,	44	5	1 2	3 8
5. Teething,	70	3	2	•
IV 2. Dev. Diseases of Adults.				
Totals,	248	4	4	15
1. Paramenia	4	1	-	1
2. Childbirth,†	244	8	4	14
IV.—3. Dev. Diseases of Old People. 1. Old Age,	1,739	62	67	144
IV.—4. Diseases of Nutrition. 1. Atrophy and Debility,	1,408	7	30	299
V.—1. Accident or Negligence. Totals,	2,061	23	77	185
1. Fractures and Contusions,	525	2	32	33
0 M7		-	-	_
3. Burns and Scalds,	185	8	6	10
4. Poison,	63 340	11	3 12	3 20
6. Suffocation and Strangulation.	223	`_	5	22
7. Otherwise, 1	237	1	8	8
8. Casualty,§	488	6	16	39
V. — 2. Infanticide.	2	_	-	_
V 3. Homicide.	19	-	_	1
V. — 4 . Suicide.	271	4	4	12
V.—5. Execution.	1	_	_	_
Sudden (cause unknown),	_	_	_	_
Cause not stated or ill-defined,	494	8	6	37
Cause not stated of inflicting,	101			

[•] See note on page 62.

⁺ Not including 30 cases of Metria (Puerperal Fever).

[†] Under "Otherwise" (V. - 1. 7) are included deaths from heat, cold, drinking cold water, lightning, surgical operation and exposure.

[§] Manner not specified; returned as "Casualty."

Totals; manner not stated.

T Comprising 111 deaths from "Hemorrhage," 96 from "Tumor," 3 from "Inflammation," and 284 deaths either returned as "Unknown," or of which no cause was stated in the Returns.

Nosological Arrangement.

			110	bologi	M Ar	ange	1166766.			
Dukes.	Essex.	Franklin.	Hampden.	Hampahire.	Middlesex.	Nantucket.	Norfolk.	Plymouth.	Suffolk.	Worcester.
										١.
2	195	17	128	81	269	4	63	41	376	215
2		10	110	•	224	4	55			189
_	168 9 3 7 8	2	5	28 1	15 7	_	1	34 1	313 27	7
-	8	1 3 1	5 3 4 6	- 2	7	-	4	1 3 2	10 7	10
_	8	1	6	_	11 12	-	3	2	19	7 10 3 6
_	32	3	20	5	43	_	8	11	78	25
		_				_	_		_	
-	32	8	2 18	- 5	43	-	8	11	- 78	25
Ì										
9	250	50	57	49	346	7	119	112	232	235
1	200	12	85	17	280	1	81	24	233	188
										•
2	263	39	160	47	342	_	81	45	619	228
	45	10	49	14	118	_	18	6	184	64
-			11	3		-	7		52	_
	18 10	10	11 7	8	85 14	-	7	1	52 14	29
1	10 107 20	4	94	- 5	85 14 50 35 32 58	-	18	1 2 10 6	14 48 82 116 178	29 9 30 23 25 48
-	20	-	21	1	35	-	8	6	82	23
1	14 49	- 2 13	21 17 31	1 8 16	52 58	-	18 8 6 23	4 16	116	25 48
_		•	-	•	•	_		•	1.0	
-	1	-	-	-	-	-	-	-	-	1
- !	2	-	1	-	1	-	-	-	14	-
-	87	7	12	8	46	-	18	15	96	22
-	-	-	-	-	-	-	-	-	1	-
2	-	-	-	-	-	-	-	-	-	-
2	87	4	30	8	105	-	36	33	91	47
						!		ļ		

Note.—As "stricture of the urethra" is almost invariably the result of gonorrhœa, it is classed as (I. -2.2.)—[Dr. Farr.]

NOTE.

Previously to the adoption, in the Registration Report of 1855, of the present Nosological Arrangement of Tables IX. and X., the term "Infantile" in those tables included under a single designation not only all deaths returned under the several heads "Infantile," "Premature" or "Premature Births," but also all ascribed to "Debility" or "Unknown" causes, if under two years of age.

This plan was continued until the Registration Report of 1868, in which, to secure greater accuracy, the method now employed was adopted, by which deaths returned under the head of "Premature," "Premature Births" or "Infantile" are stated separately in Tables IX. and X. Deaths of children under two years, from "Debility" or "Unknown" causes, are no longer classed as "Infantile."

Table XI.

DEATHS FROM SPECIAL CAUSES

IN 1896.

TABLE XI. — DEATHS IN EACH TOWN

MASSACHUSETTS, 2,500,183 - 137 249 1,677 108 282 723 166 BARNSTABLE, . 27,654 2 6 - 1 7 3 BREKSHIRE, . 86,292 - 16 2 52 5 7 41 8 BRISTOL, . 219,019 - 16 23 137 9 32 63 10 DUKES, . 4,238 - 3 1 1 - 1 ESSEX, . 330,393 - 21 24 213 12 38 100 21 FRANKLIN, . 40,145 2 2 1 1 5 1 FRANKLIN, . 40,145 2 2 1 1 5 1 HAMPDEN, . 152,938 - 6 6 7 100 12 17 33 8 HAMPBHIRE, . 54,710 - 2 1 22 - 1 8 1 MIDDLEBEX, . 499,217 - 22 23 292 20 75 166 41 NANTUCKET, . 3,016 1 1 - 1 - 1 NORPOLK, . 134,819 - 3 7 61 4 8 38 6 FULYMOUTH, . 101,498 - 3 7 32 5 7 28 8 SUFFOLK, . 539,799 - 39 132 595 24 81 179 45 WORCESTER, . 306,445 - 9 16 163 16 13 54 15 BARNSTABLE CO., . 27,654 2 6 - 1 7 3 BARNSTABLE CO., . 27,654 2 6 - 1 7 3 BARNSTABLE CO., . 27,655 1 1 1 Chaiham, . 1,899			,		===					
BARNSTABLE,		in	Small-pox.	Measles.	Scarlatina.	Diphtheria and Croup.	Cerebro-sp. Meningitis,	Whooping- cough.	Typhold Fever.	Erysipelas.
BRENSHIER,	MASSACHUSETTS,	2,500,183	-	137	249	1,677	108	282	723	166
BRENSHIER,	BARNSTABLE	27.654	_	_	2	6	_	1	7	
DUKES,	Berkshire,	86,292	-							
Resex,				16			9	32		10
Franklin,		830,393		21			12	38		21
Hamper,	FRANKLIN,									
MIDDLESEX,	HAMPDEN,	152,938	-			100	12			
NANTUCKET,	HAMPSHIRE,	54,710								
NORPOLK,	MIDDLESEX,		11 1		23		20		168	41
PLYMOUTH,	Norpolk				7		4		38	5
Suppole	PLYMOUTH		11 1		. 7				28	
Barnstable,	Suffolk,	539,799	-		132	595				
Barnstable,	Worcester,	306,445	-	9	16	163	16	13	54	15
Bourne,	BARNSTABLE Co.,	27,654	_	-	2	6	-	1	7	8
Bourne,	Barnstable.	4.055	_	_	_	1	-	_ ا	1	_
Brewster,	Bourne,	1,580	11		-	L	-	_		-
Dennis,	Brewster,	901	11			-	-	-		_
Eastham			-			=				,-
Falmouth,	73 t	1 1450	-				1	4		_
Harwich,		2,655				1 ī			1 1	_
Mashpee,		2,532			,		_	_		1
Provincetown,	Mashpee,	830	-	-	i -	_	-	-		-
Sandwich,	Orleans,	1,198			-		-			-
Truro,	Provincetown,	1,000	11							1
Wellfieet,		815	11							_
Yarmouth, 1,655 - - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - <	Wellfleet.	968							_	1
Adams,	Yarmouth,	1,655	-	-	-	1	-	-	1	-
Alford,	Berkshire Co.,	86,292	-	16	2	52	5	7	41	8
Alford,	Adams.	7.837	_	1	-	12	_	_	4	8
Cheshire,	Alford,	280	-	1	-		-	-	-	_
Hancock,			-	_				1	1	-
Hancock,	Cheshire,	1,176			-	:		-		-
Hancock,	Dalton.	8 210						1 7	1	<u>-</u>
Hancock,		836	11	1					-	_
Hancock,	Florida	425				. -	-		1	ļ _
Hinsdale,	Great Barrington, .			مٰ		- 1 -		1		1
Lanesborough,	Hancock,	511							1	-
	Laneshorongh	1,650		1	١.		1			
	T.00			ļ <i>?</i>	١.					1 =
	Lenox,	2,872		1 1	: 1		-\-			-
					, 1			1		1

FROM SPECIAL CAUSES IN 1896.

Metria (Puer- peral Fever)	Childbirth.	Dysentery.	Diarrhos.	Cholera Morbus.	Cholera Infantum.	Phthlets or Consumption.	Pneumonia.	Bronchitts.	Apoplexy.	Accident	Homicide.	Execution.	Infanticide.	Sulcide.	Alcoholism.
30	248	407	604	103	2,957	5,536	4,703	1,452	2,035	2,061	19	1	2	271	195
14-324-2-4-64	4 4 15 32 3 20 5 43 - 8 11 78 25	9 7 21 1 42 3 10 8 77 - 28 115 50 33	4 17 56 1 101 2 55 15 106 4 26 21 126 70	1 4 4 4 1 21 2 6 2 22 22 - 3 6 6 20 11	23 84 496 1 379 23 203 43 613 1 93 73 631 294	49 149 496 4 612 50 276 113 1,076 8 261 196 1,618 628	42 160 388 8 565 58 261 69 863 7 182 107 1,522	8 67 172 6 164 14 79 30 283 1 60 40 394 134	21 80 177 6 268 42 104 53 395 2 95 84 442 271	23 77 135 2 263 39 160 47 342 - 81 45 619 228	1 - 1 - 14 -		1 1	4 12 - 37 7 12 3 46 - 13 15 96 22	2 6 10 32 2 3 1 17 - 6 7 91 18
-	4	9	4	1	23	49	42	8	21	23	-	-	-	4	2
	21	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1112	1 -	1 - 3 - 12 - 1 1	7 3 3 6 3 1 6 - 1 11 2 1 3 1	3 2 5 1 6 2 1 2 8 1 2 3 6	1 1 1 - 1 1	1 1 2 2 1 1 1 2 2	1 1 3 6 - 2 2 2 - 6 - 1 1				1 - 2 - 1 -	1 1
	1	4	7 1	Ī	84 16	149 22	160 10	67 4	80	77 9	-	-	-	4	6
_			1	1	2 3 	1 2 5 5 2 8 1 1 4 4 4 1 1 6 2 2 3 2 2	2 -2 2 7 1 1 6 -2 1 7 7	1 2 - 1 - 3 3	1 2 1 4 2 9 2 2 7 7 -	2 1 - 1 6 1 3					1 1

TABLE XI. — Continued.

COUNTIES AND TOWNS.	Population in 1895.	Small-pox.	Measles.	Scarlatina.	Diphtheria and Croup.	Cerebro-sp. Meningitis.	Whooping- cough.	Typhold Fever.	Erysipelas.
Destables Com									-
Berkshire — Con.		l i	- 1	- 1					
Monterey, . Mount Washington, .	464 136	-	-	-	-		-	-	-
New Ashford,	116	_	=	Ξ	_	-	-		-
New Marlborough,	1.288	_	- 1		_		[ī	_
North Adams	19,135		5	_	10	1	1	12	2
Otis,	518	-	-	-	-	_		1	-
Peru,	305	-	-	1111	- 1	-	_	1	-
Pittsfield,	20,461	- 1	3		18	3	-	7	2
Richmond,	701	-	-	1	3	-	-	-	-
Sandisfield,	802 504	-	-	-	_	-	-	-	-
Savoy,	1,897			_	_	-		_	_
Stockbridge,	2,077	_	_	_ '	_	_	_	3	_
Tyringham,	363	-	-	_	2	_		1	_
Washington,	423	J - I	- 1	111111	_	-	-	_	
West Stock bridge, .	1,257	- - -	- l	-		1111	-	2	-
Williamstown,	4,887		1		4		1	2	-
Windsor,	556	-	-	-	-	-	2	-	-
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BRISTOL Co.,	219,019	_	16	23	137	9	32	63	10
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Acushnet,	1,115	-	-	_	-	_	_	1	_
Attleborough,	8.288	-	-	-	8	-	5	-	-
Berkley,	955	-	-	_	-	=	-	-	_
Dartmouth,	8,107	-	-	-	-	-	-	2	-
Dighton,	1,797	-	-	-	ī	=	-	1 2	- - - 7
Easton,	4,452 3,338	_		-			_		_
Fall River,	89,203		15	20	66	-4	12	27	7
Freetown,	1,405	-	-	_	_	l		_	_
Mansfield,	1,405 3,722	-		-	-	2 2	-	2	1 2
New Bedford,	55,251	-	1	3	36	2	10	19	2
North Attlehorough, .	6,576	-	-	-	4	:	1	2	_
Norton,	1,614 1,518	-	-	-	-		ī	-	-
Rehoboth,	1,810	-		1 1 1 1 1	5	=	1	_	_
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Somerset,	1,983	- 1	-	_	2	=	-	_	-
Swanzey,	1,627		-	_	3		-	-	_
Taunton	27,115		-	-	14	1	2	7	-
Westport,	2,678	-	-	-	2	-	1	-	-
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DUKES Co.,	4,238	_	_	3	1	_	-	1	l _
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Chilmark,	304	-	-	-	-	-	-	-	-
Cottage City,	1,038	-	-	-	-	-	-	-	-
Edgartown,	1,125	-	-	-	1	-	-	-	-
Gay Head,	169	-	-	2	-	-	-	-	-
Gosnold, Tisbury,	140 1,002	_	_	ī	-		-	ī	_
West Tisbury,	460	=	_	-	-	1 -	_	-	=
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Essex Co.,	330,393	-	21	24	213	12	38	100	21
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Amesbury,	9,986	-	1	-	2	-	-	;	1
Andover, Beverly,	6,145 11,806	-	1 -	2	13	-	_	7	3
Boxford,	727	-]	1 -	10	_	_	1 1	-
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Deaths in Each Town from Special Causes.

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Metria (Pacr- peral Fever).	Childbirth.	Dysentery.	Diarrhos.	Cholera Morbus.	Cholers Infantum.	Phthisis or Consumption.	Pneumonia.	Bronchitis.	Apoplexy.	Accident.	Homicide.	Execution.	Infanticide.	Suicide.	Alcoholism.
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TABLE XI. - Continued.

COUNTIES AND TOWNS.	Population in 1895.	Small-pox.	Measles.	Scarlatina.	Diphtheria and Croup.	Cerebro-sp. Meningitis.	Whooping-	Typhoid Fever	Erysipelas.
Essex — Con.									·
Bradford,	4,736	- 1	_	_	1	-	_	-	_
Danvers,	4,736 8,181	-	-	-	8	-	-	- 1	8
Essex,	1,587	-	-	-	1	-	-	1	-
Georgetown, Gloucester,	2,050 28,211	1 1 1,1	5	5	15	1	6	9	ī
Groveland,	2,333		-	-	-				_
Hamilton,	1,356 30,209		-		-	-	-		-
Haverhill,	80,209	-	-	8	18	i - i	-	17	3 1 2 2
Ipswich,	4,720 52,164	-	7	- 8	11 25	- 2	11	2 14	1
Lawrence, Lynn,	62,354		1 6	4	64	5	7	29	2
Lynnfield	818	-	_	-	_	_	_	-	_
Manchester,	1,876		-	-	2	-	-	-	-
Marbiehead	7,671	-	-	-	8	-	-	2	-
Merrimac,	2,301 5,690	=	-		ī	- 2	1	2	-
Methuen,	838	[]		_	i		_	-	_
Nahant	865	-	-	_	1	-	_	-	_
Newborv	1,489	=		- 1 1	_	-	-	=	-
Newburyport,	14,552	-	4	-	5	-	-	8 1	-
North Andover. Peabody,	3,569 10,507	<u>-</u>	-	1	5	_	2	-	ī
Rockport,	5.289	-	_	i	ĭ	ī	-	_	-
Rowley,	1,272	-	- 1	-	_		-	- 1	_
Salem,	34,473	-	8	3	80	1	10	5	3
Salisbury,	1,800	-	-	1	ī	-	ī	ī	-
Saugus,	4,497 3,259	-	ī	-	2	=	-	- 1	-
Topsfield.	1,033	=	- 1	_	-	-	_	1	_
Wenham,	886		-	-	-	- 1	-	-	-
West Newbury,	1,643	-	-	-	-	-	-	-	-
Franklin Co.,	40,145	-	_	2	2	1	1	5	1
Ashfield,	1,013 778	-	-	-	-	-	- '	-	-
Bernardston,	778	-	-	1	-	-	ī	ī	-
Buckland,	1,548 1,041	-	_	-	-	-			_
Colrain,	1 1.010	-	1 1 1	_	_	- 1		- - - - 1	_
Conway,	1,304	-	-	-	1111	_	-	-	_
Deerfield	3,007	-	-		-	-	-	-	-
Erving,	964 1,082	-	_	_	_	_			_
Greenfield,	6,229	-	-	_		-		ī	_
Hawley,	468	-	_	_	-	-	-		_
Heath,	476	-	11111	-	- 1	-	_		-
Leverett,	744	-	-			-	-	-1	-
Leyden,	363 298	-	-	-	- 1		-	-	-
Montague,	6,058			ī	2	-	-	ī	_
New Salem	2880	-	_	_	-	-	_	i	_
Northfield,	1.851	-	-		-	-	-	-	-
Orange,	5,361	-	1111	11111	-	1	-	1	1
Rowe,	498 1,560	-		_	-	_	-		_
Shutesbury,	444	_					-	-	-
Sunderland,	696	_	_	_		_	-	-	_
Warwick	599	_	-	-		-	-	-	-
Wendell,	529	_	-	-	-	-	-	-	-
Whately,	755	_	-	-	-	-	-	-	-
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DEATHS FROM SPECIAL CAUSES.

Deaths in Each Town from Special Causes.

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Metria (Puer- peral Fever).	Childbirth.	Dysentery.	Diarrhosa.	Cholera Morbus.	Cholera Infantum.	Phthleis or Consumption	Pneumonia.	Bronchitis.	Apoplexy.	Accident.	Homicide,	Execution.	Infanticide.	Suicide.	Alcoholism.
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TABLE XI. — Continued.

	IADL	E A		Ontil					
COUNTIES AND TOWNS.	Population in 1895.	Small-pox.	Measles.	Scarlatina.	Diphtheria and Croup	Cerebro-sp. Meningitis.	Whooping-	Typhoid Fever.	Erysipelas.
Hampden Co.,	152,938	-	6	7	100	12	17	83	8
Agawam, Blandford,	2,408	-	-	_	1	-	1	1	-
Deimelold	849 962	-	-	-	1	-	-	1	-
Chester,	1.429	_	=	_	_	_	2		Ξ
Chicopee,	16,420	-	-	4	25	4	5	6	1
East Longmeadow, . Granville,	1,591 1,005		-	_	-	-	-		-
Hampden,	743	-	-		_	-	_	1	=
Holland,	199	-	=	-	3-	-	-	=	ī
Holyoke, Longmeadow,	40,322 620		2	_	29	2	6	7	
Ludiow,	2,562		- -	-	2			-	=
Monson,	3,746	-	-	1	3	-	-	-	ī
Montgomery, Palmer,	275 6,858	-	=	_	6	_		2	_
Russell,	846	_		_	-	_	1	=	-
Southwick	961	-	- - 4	-	- 25		2	10	=
Springfield, Tolland,	51,522 309			2	25	4	-	10	5
Wales,	783	-	-	-	-	-	-	1	-
Westfield,	10,663	-	-	-	7	1		8	-
West Springfield, . Wilbraham,	6,125 1,740		-	-	1	1	-	1	_
	2,, 20	_							
Hampshire Co., .	54,710	-	2	1	22	-	1	8	1
Amherst,	4,785	_	2	_	1	_	_	_	_
Belchertown,	2,161	-	- 1	-	_	-	-	3	-
Chesterfield,	589 750	-	_	-	-	-	-	- 1	-
Cummington,	4,790	-		-	_	_			-
Enfleid,	990	-	- 1	-	1	-	_	-	-
Goshen,	304 748	-	-	-	-	-	-	- -	-
Granby,	481	_	_	-		_	_	_	_
Hadley,	1.704	1111111	11111	-		-	-	_	
Hatfield,	1,262			ī	ī	-		1	-
Huntington, Middlefield,	1,450 386	-	_	-	-	_		ī	_
Northampton,	16,746	- 1	-	-	6	-	1	1	
Pelham,	486 450	-		-	-		-	-	-
Prescott,	401	[-	_	-	_	_		_
South Hadley,	4.443	-	-	_	2	-	-		-
Southampton,	1,054	-	-	_	11	-	-	-	-
Ware,	7,651 476	_	-	_	- 11	-	-	-	-
Williamsburg	1,955	-	-	-	-	_	-	1	-
Worthington,	648	-	-	-	-	-	-	-	-
Middlesex Co., .	499,217	-	22	23	292	20	75	166	41
Acton,	1,978	_	-	_	1	_	-	_	1
Arlington,	6,515	-	1	-	-	-	2	1	1
Ashby,	804 2,090	-	-	-	-	-	ī	ī	-
Ayer,	2,101	_	_	_	2				-
Bedford,	1,169	-	-	-	-	-	-	-	-
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Deaths in Each Town from Special Causes.

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Metria (Puer- peral Fever).	Childbirth.	Dysentery.	Diarrhes.	Cholera Morbus.	Cholera Infantum.	Phylisis or Consumption.	Pneumonia.	Bronchitls.	Apoplexy.	Accident.	Homicide.	Execution.	Infanticide.	Suicide.	Alcoholism.
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TABLE XI. — Continued.

COUNTIES AND TOWNS.	Population in 1895.	Small-pox.	Measles.	Scarlatina.	Diphtheria and Croup.	Cerebro-sp. Meningitis.	Whooping- cough.	Typhold Fever.	Erysipelas.
Middlesex — Con.									
Belmont,	2,843	-	_	_	-	-	1	-	_
Billerica,		-	-	-	-	-	1	-	-
Boxborough, . Burlington,			-	_	-	-	_	_	_
Cambridge,	03.040	1 -1	ī	5	64		13	82	5
Carlisle,	492	-			_	_	-	-	_
Chelmsford, .		-	-		2	-	-		1
Concord,	5,175	-	-	-	-	1	ī	1	=
Dracut,	1 100		_	<u>-</u>	1	_		1	_
Dunstable,	30		1	_	5	_	3	6	2
Framingham, .	0.510	-		-	6	1	-	-	ī
Groton,		-	_	-	1	-	-	-	
	2,718	- 1	-	-	1	-	-	1	-
Hopkinton, . Hudson,		11111111111	-	_	3	-	ī	1 5	9
Hudson,	0.400		- 1	-	1	_	i	ı	_
Lincoln,		-	_	_		_	_	i	_
Littleton,	. 1.136	-	_	_	-	_	-	-	_
Lowell,	84,367	-	5	1	46	5	25	38	9
Malden,	29,708	-	-	4	9	-	2	8	-
	14,977	-	1	-	. 4	1	-	2	_
	3,090 14,474	-	ī		12	-	6	3	1
• • •	11.965		:	1	3	1	3	2	1
Natick,	8,814	-	- :	_	1	_	-	1	_
	27,590	-	-	1	23	2	1	7	2
North Reading, .	835	-	-	-	-	-	-	1 2	-
	3,321	-	_	-	ī	-	_	4	1 -
Sherborn	1,446			-				-	_
Shirley	1.399	1 1 1 1	_	_	1	ī	_	_	-
Somerville.	52,200	-	8	5	65	1	6	28	6
Stoneham	6,284	-	-	-	3	-	-	1	-
Stow,	. 920	_	-	_	_	1	-	ī	7
Sudbury, Tewksbury,	1,141 3,379	-	-	_	ī	=	_	i	1 1 3
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Townsend	. 1,780	-	-	-	-		_	2	
Tyngsborough	635	-	-	-		-	-	-	=
Wakefield,	8,304	111111	1	-	1	-	8	3	-
	20,876 7,788	-	-	4	9	3	-	5 3	1
Watertown,			_	_	7 2		_	_	
	2.418	_	_		_	_		-	_
Weston,	1,710	_	_	-	-	-	111	1	-
Wilmington	1,420		2	-	-	ī		-	-
Winchester,		-	ī	- 2	. 8	1 1	-	- 2	1 2
Woburn,	14,178	-	1	z	. 8	1	-	2	
Nantucket Co.,	3,016	-	-	-	1	-	1	-	-
Norfolk Co., .	134,819	-	3	7	61	4	8	38	5
Avon,	1.626	-	_	-	1	-	-	-	-
Bellingham,	1 1 401	-	-	-	_	-	-	2	=
Braintree,	5.311	-	-	-	4	-	-	-	1
Brookline,	16,164	-	-	2	6 2	1	2	-	-
Canton,	4,636	1	_	-	Z	1		-	-

Deaths in Each Town from Special Causes.

Metria (Puer- peral Fever).	Childbirth.	1	1 - - - 27	Chotera Morbus,	1 - - 91	Phthisis or Consumption.		Bronchitis.	44 1 1 78 - 8	Aceident.	Homleide.	i i i i i i Execution.	i i i i i i l	Salcide.
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TABLE XI. - Continued.

COUNTIES AND TOWNS.	Population in 1895.	Small-pox.	Measles.	Scarlatina.	Diphtheria and Croup.	Cerebro-sp. Meningitis.	Whooping- cough	Typhoid Fever.	Erysipelas.
Norfolk — Con.								1	
Cohasset,	. 2,474	-	-	-	-	-	-	1	_
Dedham,	· 7,211	-	-	-	2	-	-	2	1
Dover, Foxborough, .		-	ī	-	1	_	-	ī	_
D	5,136			_	4	_	1		1
Holbrook,	. 2,298	-			-	-	_	-	_
Hyde Park, .	. 11,826	-	-	1	10	-	1	4	-
Medfield,	. 1,872	-	- i	-	<u>-</u>	-	- i	<u> </u>	-
	. 2,913	-	-		1	-	-	2	-
M 21a	. 1,006 5,518	-	_ [-	4	-	-	3	_
Needham	3,511		[_	2	_		ı i	2
Norfolk	. 882		_	ī	1	-		-	_
Norwood	. 4,574	-	-	1	3	-	-	2	-
Quincy,	. 1 20.712		- - -	3	14	ļ	1	8	2
Raudolph,	8,694	-	-	-	-	1	1	1	-
Sharon, Stoughton,	1,717 5,272	-	-	-	_	-	-	3	_
Walpole,	2,994	-	1	_	-	_		ĭ	_
Welleslev	4,229	-	-	_	_	_	_	-	_
Weymouth	. 11,291	-	1	-	4	-	1	6	-
Wrentham, .	. 2,584	-	-	-	1	-	-	1	-
PLYMOUTH Co.,	. 101,498	-	3	7	82	5	7	28	8
Abington,	4,207 4,686	-	-	-	- 2	-	-	2 2	1
Bridgewater, . Brockton,	33,165	-	ī	_	19	4	2	8	2
Carver,	1,016	_	l î l	1	_		_	-	ī
Duxbury,	. 1.966	-	-	_	1	-	1	2	_
East Bridgewater,	. 2,894	-	-	1	_	-	l -	-	1
Halifax, Hanover,	497	-	-	-	-	-	=	1111	=
Hanson,	. 2,051 1,380	-		-	_	_	_		_
Hingham,	4,819	_		_	2		2	_	1
Hull,	1,044	-		- - -				-	ī
Kingston,	. 1,746	-	-	_	-	-	-	1	_
Lakeville,	870	-	- '		-		-	-	-
Marion,	759	-	-	-	_	-	-	-	_
Marshfield, . Mattapoi>ett, .	1,760 1,032	-	-	ī	-	_	_	-	1
Middleborough, .	6,689			_	l ī		_	ī	-
Norwell,	1,540	-	_	-	2	_	=	2	_
Pembroke,	. 1.223	-	-		-	1	-	_	_
Plymouth,	. 7,957	-	-	2	2		-	4	-
Plympton,	. 549	-	I	1	-	-	=	-	-
Rochester,	1,021	-	-	_	_	-	2	1	
Rockland, Scituate,	5,523 2,246	-	<u> </u>	ī	2	_	-	li	
Wareham	3,367		Ī	_	î	-	_	ì	
West Bridgewater.	1,747	-	_	_	-	-	-	1	-
Whitman,	5,744	-	j -	-	j -	-	j -	1	i -
Suppole Co., .	. 539,799	-	39	132	595	24	81	179	45
Boston,	. 496,920 . 31,264	-	36	130	560 28	23	79	169	42 3
Chelsea, Revere,		-	2	1	28	1	2	5 4	3
Winthrop,	4,192	II -	1 1	1	3	1 -		li	

Deaths in Each Town from Special Causes.

Metria (Puer- peral Fever).	Childbirth.	Dysentery.	Diarrhua.	Cholera Morbus.	Cholera Infantum.	Phihisls or Consumption.	Paeumonia.	Bronchills.	Apoplexy.	Accident.	Homfelde.	Execution.	Infanticide.	Suicide.	Alcoholism.
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TABLE XI. - Concluded.

COUNTIES AND TOWNS.	Population in 1895.	Small-pox.	Measles.	Scarlatina.	Diphtheria and Croup.	Cerebro-sp. Meningitis.	Whooping-	Typhoid Fever	Erysipelas.
Worcester Co., .	806,445	-	9	16	163	16	13	54	15
Ashburnham,	2,148	-	_	_	_	_	-	_	_
Athol,	7,864	-	-	1	-	2	-	-	-
Auburn,	1,598	-	-	-	-	-	-	1	-
Barre, Berlin,	2,278 897	-		-	ī	-	-	-	-
Blackstone,	6,039	-	ī	_	5	_	ī	ī	_
Bolton,	797	-	_		-	111	-		_
Boylston	729	-	<u> </u>	-	-	_	_	-	_
Brookfield,	3.279		-	-	1		-	2	_
Charlton,	1,877	-	-	-	-	-	-	-	-
Clinton,	11,497	-	-	1	8	-	-	-	-
Dana,	717 2,026	1111	-	-	-	11111	-	-	
Douglas,	3,203	-	_	-	_		-	-	-
Fitchburg,	26,409	[2	18	-	2	4	3
Gardner,	9,182		ī		4	_	ĩ	4	-
Grafton,	5,101	_		_	ō	-	i	2	-
Hardwick,	2.655	-	-	_	1		_	_	
Harvard,	1,162	-	-	-	1	_	-	-	-
Holden,	2,602	-	1		_	-	-	1	_
Hopedale,	1,377	-	-	2	-	1111	_	2	-
Hubbardston, Lancaster,	1,274 2,180		-	-	ī	-	-	ī	_
Lancaster,	3,239	[-		_	-	- 1	=
Leominster	9.211	-	_	ī	6	_	_	2	_
Lunenburg,	1,237	1111111	=	_	_	-	_		_
Mendon,	889	-	-	-	-	_	-	_	-
Milford,	8,959	-		1	5	1	2	1	1
Millbury, New Braintree,	5,222	-	-	1	1	1	-		-
	542 4,635	-	-	-	4	-	-	3	-
North Brookneid,	1,940			-	•	_	_	3	
Northbridge,	5,286	_	_	_	10			ī	=
Oakham,	605		-		-	-	-	-	_
Oxford,	2,390	-	_	-	-	_	-	-	2
Paxton,	426	-	-	-	-	-	-	-	-
Petersham,	952	-	-	-	1	-	-	1	-
Phillipston,	460 952	-	-	-	-		-	-	:
Princeton,	890	-		-	ī	-	-	=	-
Rutland,	978	-	_ [_	_		_	=	_
Shrewsbury,	1,524	-	_	_		_	_	-	_
Southborough,	2,223	-	-	-	-	_	_		1
Southbridge,	2,223 8,250		_	_	2	-	-	1	ī
Spencer,	7.614	-	1	-	3	_	_	1	-
Sterling,	1,218	-	-		-	-	-	-	-
Sturbridge,	1,910	-	-	-	1	-	1 1 1	-	-
Sutton,	3,420 2,915	-	_	1	8	1	-	2	-
Templeton, Upton,	2,150	-	-	-	· -	-	_	2	_
Uxbridge	3.546	-		-	1	ī	2	ī	-
Warren,	4,430	_	_	_	3		_	i	_
Webster,	4,430 7,799	_	_	_	6	=	1	2	-
West Boylston,	2,968	_	_	=	1	-	_	-	-
West Brookfield, .	1,467	-	-	-	1	-	\ -	-	1
Westborough,	5,235	-	1		5	-	-	1	_
Westminster,	1,315	¦ -	-	-	=	-	-	-	_
Winchendon, Worcester,	4,490 98,767	-	7	6	2	1 9	3	1 16	6
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Deaths in Each Town from Special Causes.

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Table XII. — Aged One Hundred Years or More. — Died in 1896.

Date.		NAME.		Age.		Place of Birth.	ģ i	Place	Place of Death.	. بغ		Whether Married.
				Ya.	Mos.							,
Jan.		14, Phebe H. Woodward (m. n. Hunt),.		102	ο ν	Lancaster,	•	Boston,	•		•	Widow.
Jan.	31,	Catherine Welch (m. n. Burns),	-	108	1	Ireland, .	•	Boston,	•		•	Widow.
Mar.	29,	29, Lucy Thomas (m. n. Edwards),		103	1	Chesterfield, Va.,	Va., .	Boston,	•		•	Widow.
spril	7,	Martha Swan (m. n. not given),	-	103	s	Methuen,		Lee, .	•		•	Widow.
April	11,	Sarah Ide (m. n. Frost),	•	102	_	Sharon, .		Milford,	•		•	Widow.
April	24,	Ezra B. Newton,		101	63	Paxton, .	•	Harvard,	•		•	Widower.
July	10,	Ellen Doyle (m. n. not given),	-	100	1	Not given,	•	Lowell,	•		•	Widow.
Oct.	26,	Mary Louise Berube Willets, wid. Andre,	_	109	1	Canada, .	•	Fitchburg, .	٠.		•	Widow.
Nov.	29,	Sarah Annis (m. n. Dopp),	•	101	9	Canada, .	•	Worcester, .	ř,		•	Widow.
Dec.	က်	3, Catherine Cross (m. n. Fay),	•	101	,	Ireland, .	•	Somerville,	le,	•	•	Widow.
Dec.	17,	17, Louisa Cotton (m n. King),	-	103	∞	Virginia,.		New Bedford,	ford,	•	•	Widow.

DIVORCES IN MASSACHUSETTS. 1896.

DIVORCES. — THE STATE AND COUNTIES. — (By Statute Causes.) — 1896.

Distinguishing, by Sex, the Libellants; Libels Contested and Uncontested; Number of Years Married; and Divorces Granted and Refused.

STATE, Nur	mber of 1	Number of libely pending Jan. 1, 1896 (including all cases, whether decrees niet had been entered or not),	Jan. 1, January ring the n decrees h sies of	pending Jan. 1, 1896 (including all cases, whether decrees ponding January 1, 1896, in which decrees nini had been filed during the year 1896,	uding all in which is which is conterers and been	ll cases, by decrees of during to entered	whether c	pending Jan. 1, 1896 (including all cases, whether decrees nist had been entered ponding January 1, 1896, in which decrees nist had been ontered at that date,	ri had be rred at th	en enter	ed or	oot), .	d) b	ch we		. 2,488 . 682 . 1,640 . 1,254 . 1,123 . 1,123	
		LIBBLLANTS.	1				DIVORCE.				N	MBER	OF YEA	NUMBER OF YEARS MARRIED.	RRIKD.		1
CAUSES.	No.	SEX		Not con- tested. tested	Con- tested,	Granted.	Granted. Refused.	Discon- tinued or Dis- missed.	Under 6 mos.	Under I year	- St	200	50 g	20 Over	o Unk	ARGIG.	Aver-
Adultery,	344	Males, Fem.,	188 156	136	52 24	121 133	0.81	21	۱ ب	တ ၊		58	$\begin{array}{c c} 69 & 1 \\ 51 & 1 \end{array}$	41 51	1 1	3,433	96.6
Cruel and abusive treatment,	177	Males, Fem.,.	15 162	130	7 32	118	3	41	161	1 80	<u>'</u>	49		816	1 1	1,710	99-6
Desertion,	695	Males, Fem.,.	291 404	245 878	46 26	222 861	10	89	1 1	1 1	27 36	96 10	108 156 5	45 58 13	13 - 1	899'8	8,668 *12.47
Extreme cruelty, .	86	Males, Fen.,.	93	200	22	- 99	1 9	4 8	1 =	1 1	- I	2 7 2	1 25	-6	1 5	1,729	17.65

Imprisonment, .	•	Malcs, Yen	0	4	1-	0	1 1	1 1	1 1	1 1	1 04	11		- 67	1 1	~	91 15-17	5-17
Impotency,	40	Males, Fen.,	ဘဇၢ		81	1 1	1 1	ထက	1 69	1 1	04 I	11	- 1	1 1	11			3.00
Intoxication,	194	Males. Fem.,.	89 155	8 8 8	88	130	69 1	13 25	1 1	1-	∞ 5	2#	17	4 81	1 10	- 3,042		10.53
Non-support,	78	Fem.,.	82	20	«	88	2	32	-	-	61	23	22	•	'	- 22	733	07.6
Nullity of marriage,	13	Males, Fem., .	04	10	4 00	64 85	- 1	91	01 ~	- 1		∞ 1	87	1=	- 	~~~	- 36	2.30
Totals,	\$1,610	Mules, Fem.,	561 1,059	429 921	122 138	876 854	4 2	151	1010	40	81 198 3	176 201 336 368	28	67	41 88 -	19,81	18,516 +11.50	1.50

Aggragate and average of 694 cases.
 " of 1,609 cases.
 Tone case transferred from Middlesex to Suffolk County, 6 probate appeals, 1 petition to vacate decree refused.

DIVORCES, 1896 - Continued.

2022 21		Aver-	9.00	7.40	21.66	8-00 	10.50	12.12
perode		Aggre- galo.	15	87	130	တ	21	206
b ll a	á	Unk.	~~	~~~	~~	1	~~~	
	MARRI	Over Unk.	1.1	1 1		1	1 1	
• • • • • • • • • • • • • • • • • • •	NUMBER OF YEARS MARRIED.	222	1)	11	1	1	1 1	111
	10 M	2 2 8	- 1	1 1	1 1	1	→ 1	C4 1
red or	Nown	10 5 2	1 1	8	م ا	•		44
to,		-2 :		· +	1 (1	1 1	- œ
that de that de		Under 1 year.	1.1	1 +	1 1	1	1 1	+ +
es niet litered at		Under 6 mos.	1.)	1 1	1 1	•	F I	1 1
pending Jan. 1, 1866 (including all cases, whether decrees nist had been a pending Jan. 1, 1866, in which decrees nist had been entered at that date, filed during the year 1806, in which decrees nist were entered during the year 1806,		Discon- tinued or Dis- missed.	_ HH	1 1	1-	-	1 1	3
s rife had a rife had a rife had a rife the d (wheth	DIVORCE.	Granted. Refused.	1 1	11	1 1	1	1 1	1 I
ling all cach decree				H 4	4	1		6
(includ in whi 1896, H were H were a had be		Con- tested.	11	109	104	,	1 1	1 5
pending Jan. 1, 1806 (inoit pending Jan. 1, 1804, in willed during the year 1806, in which decrees sies were n which nies decrees had no which nies decrees had nary dear 1806.		Not con- Con- tested. tested	1	- 8	41	-		4
ading Ja ading Ja d during which d which ni ir 1896,			7.7	-4	40	-		ထ ထ
Number of libels pending Jan. 1, 1896 (including all cases, whether decrees a tist bad been entered or not), if the during the year 1896, in which decrees size had been entered at that date, if in which decrees a tet were entered during the year 1896, Number of cases in which nist decrees had been entered (whether pending January 1, or since entered), which were finally disposed of during the year 1896, Number of cases finally determined in 1896,	LIBELLANTS.	Bex.	Males, Fem., .	Males, Fem., .	Males, Fem., .	Fem., .	Males, Fem., .	Males, Fem.,
Number of d		No.	တ	2	9	-	2	17
			•	ive .	•	•	•	•
NBL1		œ	•	abus	•	olty,	•	•
BARNĄTABLE,		CAUSES.	Adultery, .	Crucl and abusive treatment,	Desertion,.	Extreme cruelty,	Intoxication,	Totals,

Berkshire,	Mamb Namb	ber of during	Number of libels pending January 1, 1996 (including all cases, whether decrees sief had been entered or not). He pending Jan. 1, 1996, in which decrees nief had been entered at that date, He filed during the year 1996, In which decrees sief were entered during the year 1996, Number of cases in which sief decrees had been entered (whether pending January 1, or since entered), which of during the year 1996, Number of cases finally determined in 1996,	g Jan. g Jan. gring t sh dees b niet 06, .	pending January 1, 1906 (including all cases, whether decrees size had been entered or not). pending Jan. 1, 1804, in which decrees size had been entered at that data, filed during the year 1896, in which decrees size were entered during the year 1896, in which size decrees had been entered (whether pending January 1, or since entered), which were finally disposed year 1896, finally determined in 1896,	96 (incil 5 which 896, rere en ad been	uding all decrees tered dur n entered	nies had ing the y (whether	bethor debeen ente	orees at the	of had be date,	g g	bered	r not)			diapo		22 2 2 2 2
		3	Libellasts.					Drvomon.				~	DKBE3	Or Ya	NUKBER OF YEARS MARKED.	200			
CAUSES.	MQ.	é	BEX.		Not con- Con- tested, tested		Granted. Befused.	Refused.	Diacon- tinned or Dia- missed.	Under G mos.	Under 1 year.	#2 10	22	228	828	O See	Unk.	Aggre-	Aver-
Adultery,	•	} 2	Males, Fem.,	10 01	80 04	04 I	40	H 1	1 1	1 1	1 1	69	1 1	es 1	1 1	1=	~~	98	12.28
Cruel and abusive treatment,		01	Fem., .	10	O.	-		-	64	ı	1	•	စာ	•			ı	104	10-40
Desertion,.		~~ 22	Males, Fem., .	18	91	1 1	8 8	1 1		1 1	1 1	1 04	90	64	- 91	11	~~~	275	10 · 19
Extreme cruelty,	•	-	Fem.,.	-	1	_	1	1	-	•	1,	-	-	1		.	,	9	6.00
Intoxication, .		•	Fem.,.	2	φ.	ı	4	1		1	ı	81	81	-	1	÷		ş	7.20
Non-support, .	•	-	Fem.,.	-	1	ı	1	Ì	1	1	1	1	1	,	1	•		æ	3.00
Totals, .	•	§ 19	Males, Fem.,	14 37	38	69 69	12 32		14	1 1	1 "1	36	16	10 00	- 67	1 69	~~	510	10.00

ntinued.
უ - -
ES, 189
DIVORC

BRISTOL, RE	umber o.	Number of libels pending Jan. 1, 1896 (including all cases, whether decrees sist had been entered or not), '' the pending Jan. 1, 1896, in which decrees sist had been entered at that date, '' the location gate year 1896, '' in which decrees sist were entered during the year 1890, Number of cases in which sist decrees had been entered (whether pending January 1, or since entered), which were finally disposed of during the year 1896, Number of cases finally determined in 1896,	Jan. 1, Jan. 1, dan. 1, decree a decree in the decree in t	pending Jan. 1, 1896 (including all cases, whether decree pending Jan. 1, 1896, in which decrees niet had been enter filed during the year 1896, in which decrees niet were entered during the year 1896, in which niet decrees had been entered (whether pending year 1896,	which d which d c d d f f f f f f f f f f f f f f f f	Including all cases, who is which decrees ride in which decrees ride in 889, were entered during the lad been enfored (where 886,	whether set had be go the yes	pending Jan. 1, 1896 (including all cases, whether decrees size had been epending Jan. 1, 1896, in which decrees size had been entered at that date, filed during the year 1896, in which accrees size were enlered during the year 1896, in which size decrees had been enlered (whether pending January 1, or si year 1896,	tot bad at tha dat tha .	been ent date,	bered c	r not)	rhioh	were fi	inally	dispos		
		LIBELLANTS.					DIVORGE.					NUMBER OF YEARS MARRIED.	OF Y	EARS N	[ARRJE	ė		
CAUSES.	No.	SEX.		Not con- Con- tested. tested.	Con- tested.	Granted. Refused.		Discon- tinned or Dis- missed.	Under 6 mos.	Under 1 year.	#2 :	10 5 €	#2 8	222	Over 80	Unk.	Aggre- gate.	Aver-
Adultery,	58	Males, Fem	11	15	12	15			1	11	100	63 83	2	21	1.1	}-	295	10.53
Cruel and abusive treatment, .	15	Malcs, Fem.,	14	-11	ન જ	12	1 ==	1 ==	1 1	1 1	1 00	- 8	12	1=	1 1	~~	154	10.26
Desertion,	88	Males, Fem.,.	808	208	101	12	8	∞ 1	1 1	1 1		10 00	~~	10 64	181	~~	525	13.82
Intoxication,	15	Males, Fem.,	13.2	13.2	1 1	e4 85	1 1	1 1	11	1.1	14	10	1 4		1 69	~~~	230	15.33
Non-support, .	10	Fem.,	49	10	1	4	1	,	1	ı	84	cq.	-	•	1		81	6.20
Nullity of marriage, .	တ	Males, Fem.,.	7.	- 1			1 (1 1	1 1	1.1	1		1.1	1.1	~~	\$	11.84
Totals, .	104	Males, Fem.,	40	31 59	0 v2	81 59	44	1	I	1 1	9 27	01 81	15 25	80 10	14		1,269	12.20

Number of Mbels pending January 1, 1996 (including all cases, whether decrees mist had been entered or not),	L	No. SEX. tested. tested. Granted Rafused. Discon. Todar Under 1 5 10 10 10 0 0 0 0 0 0 0 0 0 0 0 0 0	busive 1 Fem., 1 1 - 1 - 1 - 16 16.00	1 Males, 1 1 - 1 - 23 28.00	ty, . 1 Fem., 1 - 1 1 25 25.00	8 \ Males, 1 1 1 2 1 1 - 5 64 21.34
ber of		ó	-			တ
DUKES, Kumb		CAUBES.	Cruel and abusive treatment,	Desertion,	Extreme cruelty, .	Totals,

DIVORCES, 1896 — Continued.

ESSEX, Aum	sher of i	Number of libels pending Jan. 1, 1896 (including all cases, whether decrees after had been entered or not), " fleed during the year 1896, " in which decrees afer were entered during the year 1896, " in which decrees afer were entered (whether pending January 1, or since entered), which were finally disposed of during the year 1896, Number of cases in which mist decrees had been entered (whether pending January 1, or since entered), which were finally disposed. Number of cases finally determined in 1896,	Jan. 1, 1 Jan. 1, 1 ing the y deorees nist deo for the y termine	pending Jan. 1, 1996 (incir pending Jan. 1, 1996, in wi filed during the year 1996, in which decrees nist wers in which nist decrees had 1 year 1896,	oluding all cas which decrees (6,	pending Jan. 1, 1896 (including all cases, whether decreading Jan. 1, 1896, in which decrees sief had been enter filed during the year 1896, in which decrees sief were entered during the year 1896, in which sief decrees had been entered (whether pending year 1896,	rhether of had been the year hether pe	pending Jan. 1, 1896 (including all cases, whether decrees size had been pending Jan. 1, 1896, in which decrees size had been entered at that date, filed during the year 1896, in which decrees size were entered during the year 1896, in which size decrees had been entered (whether pending January 1, or si year 1896,	of had b	een eat	enter	not),	dol				186 252 252 253 253	
		LIBELLANTS.					DIVORGE.				-	NUMBER OF YEARS MARKED.	07 YE	A SEA	KRETED			
CAUSES.	No.	8		Not con- tested.	Con- tested.	Granted. Refused.		Discon- tinued or Dis- missed.	Under • mos.	Under 1 year.	#2 #	#2 #	202	222	- E	Unk. gate.	<u> </u>	Aver-
Adultery,	97	Males, Fem.,	18	11 25	F-09	11 24	1 1	78	1	1 1	40	2	12	1 s	1 1	~~	466 1	10.35
treatment, .	88	Fem., .	83	23	4	31	ı	7	1	ı	•	=	2	04	1	_		99-6
Desertion,	138	Males, Fem.,.	89	8 42	~ 8	89	1 1	- 1	1 1	1 1	44 00	16 29	416	21	1 2	} 1,693*		12.36
Extreme cruelty, .	••	Males, Fem.,.		1.0	1 -	1 10	1 1	-8	1 1	1 1	1 -	- 03	14	1 1	11	~~	810	10.18
Imprisonment,	_	Males,	-	-	ı	-	ı	ı	1	,	1	1	1		<u> </u>	_	- 5e - 3e	36 -00
Intoxication, .	83	Males, Fem.,	8 19	æ æ	1-	8 17	1 1	1 69	11	1 1	14	~ 9	410	101	1 1	~~		10.82
Non-support,	မ	Fem.,	9	4	64	တ	1	တ	1	ı	94	-	6 0	1	1		45	7.50
Totals,	252	Males, Fem.,	180	58 166	41.	67 169	1.1	31 11	- 1	1 1	8 8	23	72	182	87-	} 8,587†	•	14 · 29

· Aggregate and average of 137 cases.

+ Aggregate and average of 251 cases.

FRANKLIN		umber o	Number of Abels pending Jan. 1, 1909 (including all cases, whether decrees nin had been entered or not), "pending Jan. 1, 1909, in which decrees nist had been entered at that date, "Bled during the year 1909, "In which decrees tist worse abstract during the year 1909.	lan. 1, lan. 1, decree	1896 (lp. 1896, lp. year 189	studing which of	decrees a	n, whether	r decrees	nied bac ed at th	I been e	ptere.	or	 					ះ ៩ ឧ ភ
		umber o	Number of cases in which nief decrees had been entered (whether pending Japuary 1, or since entered), which were finally disposed of during the year 1896,	elef de	orees ha	A 6	entered (whether	pending Ja	Japuary	1, or at		entered)	, whie	Were .	Bosh .	y disp		88.8
			LIBRILANTS.			· =				: _	:	·	. Jan	No W	MUMBER OF YEARS MARRIED.	. 3	. e		
CAUSES.		Š.	Bez.	× -	Not con- tested. tested		Granted. Befased.		Discon- tinued or Dis- missed.	Under 6 mod.	Under 1	-SB	#2 2	222	2:2	13	Over Unk.	Aegre-	A ver-
Adultery, .		တ	Males, Fem.,	81	04 m	11	64-	1 1	1 1	1 1	11	- 1	1-		1 1	1 1	~~~	8	99.9
Cruel and abusive treatment,	ousive	64	Fem.,.	89			94	1	ı	1	<u> </u>	ı	-	=	1	ı	1	22	11.00
Desertion,.	•	15	Males, Fem.,	ဗ္ဓ	6 00	1	4 00	1 1	81	1 1	11	1 1	1 49	es 64	89 ==		~~	265	17.66
Intoxication,	•	م	Fem.,	19	10	ı	10	ı	t	1	1	-	-	-	⊗	1	1	11	14.20
Non-support,	٠	-	Fem., .	-	-	ı	-	i	ı	1	•	1	1	-	•	1	1	9	10.00
Totals,	•	28	Males, Fem.,	∞ <u>∞</u>	8 91	1 04	17	1 1	2 -1	1 1	1 1		1 00	4.0	64 85		~~~	888	14.92

DIVORCES, 1896 — Continued.

HAMPDEN,	Number " " Kumber of dr	Number of libels pending Jan. 1, 1896 (including all cases, whether decrees niet had been entered or not),	ng Jan. Iuring th ich deor ich niei 1896.	pending Jan. 1, 1896 (inclu pending Jan. 1, 1896, in w/ filed during the year 1896, in which decrees sies wer- in which sies decrees had year 1896.	soluding which 196, were cut and been	g all cases decrees s vered duri	pending Jan. 1, 1806 (including all cases, whether decree producing Jan. 1, 1806, in which decrees sist had been entered during the year 1806. In which decrees sist were entered during the year 1806, in which sist decrees had been entered (whether pending year 1800.	pending Jan. 1, 1896 (including all cases, whether decrees sifet had been eppending Jan. 1, 1896, in which decrees sifet had been entered at that date, filed during the year 1896, In which decrees sifet were entered during the year 1896, In which sifet decrees had been entered (whether pending January 1, or all sally determined in 1896,	nies had at the at the fatuary	l been en tit date,	stered	or not	which		ulle	dlapose		
		LIBELLANTS.					DIVORCE.				×	DEBER	NUMBER OF YEARS MARRIED.	No M	RECED	,		
CAUSES.	o M			Not con- Con- tested. tested	Con- tested.	Granted. Refused		Discon- tinued or Dis- missed.	Under Bos.	Under 1 year.	-20	#£#	208	0" 223	D LE O	Unk. &	Agure- gate.	Aver-
Adultery,	13	Males, Fem.,	r3 00	r0 00	1 1	တမ	1 1	8181	1 1	1 1	1 1		4 64	1 69	11	~~	146	11.28
treatment,	=	Fem.,	11	11	ı	2	1	₩.	ı	•	-	4	4	81			142	12.91
Desertion,.	8 8	Males, Fem.,	15	23	11	17	1 1	91	1 1	1 1	တတ	& •	ဗမ	50 80	- 1	~~	481	11.34
Extreme cruelty, .	~	Fem., .	Ø	64	1	-	1	-	1	ı	_	1	1	_	_		98	13.00
Impotency,		Fem.,	-	1	-	1	,	-	7	ı	1	1	1,	,	 		1	1
Intoxication,	17	Males, Fem.,	15.2	15.2	1 1	-=	11	- 4	!!	1 1	64 85	1 %	1 9	1 =	1 1	~~	203	11-94
Non-support,	•••	Fem.,.	∞	x 0	ı	မှ	1	67	1	1	-	67	4		1		72	00.6
Totals,	6	Males, Fem.,.	88	80 59	1	21 45	1 1	9	1	11	96	9	10 19	9	2	~~	070,1	11 · 34

HAMPSHIRE,	Kamber fumber of de	Number of libels pending Jan. 1, 1866 (including all cases, whether decrees nies had been entered or not), " ponding Jan. 1, 1806, in which decrees nies had been entered at that date, " filed during the year 1806, " in which decrees nies were entered during the year 1806, Number of cases in which nies decrees had been entered (whether pending January 1, or since entered), which were finally disposed of during the year 1806, Number of cases finally determined in 1806,	ding Jan ding Jan during bich de bich née 1996, .	pending Jan. 1, 1886 (indi- pending Jan. 1, 1866, in w! filed during the year 1866, in which decrees neef wer- in which neef decrees had? Fear 1866,	(includi in which 1896, were et had bee	ng all cash b decrees intered du	ntei had ntei had ring the	pending Jan. 1, 1866 (Including all cases, whether decrees nist had been epending Jan. 1, 1806, in which decrees nist had been entered at that date, filed during the year 1806, In which decrees niet were entered during the year 1806, In which niet decrees had been entered (whether pending January 1, or signally determined in 1896,	s niet ha	d been date,	ntered	or nol	*ploh	· · · • • • • • • • • • • • • • • • • •	inally (date	20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		LIBBLLANTS.					DIVORCE				N N	TEBER	NUCEER OF TEARS MARKED.	E KVI	INIED.		
CAUSES.	, o	Bex.		Not con- tested. tested		Granted. Refused	Refused	Discon- tinned or Dis- missed.	Under •	Under B year.	= 2 to	#2 #	22	8	or Unk.	Argre-grate.	Aver-
Adultery,	16	Males, Fem.,	12	17.4	- 1	83	1 1	E.	1 1	1 1	01 1	es es			<u>~~~</u>	. 02	12.50
Cruel and abusive treatment,	16	Males, Fem., .	15	12	1 1	1 64	1 1	13	1 1	1 1	1 40	80	14	1 64	<u>~~</u>	194	12.13
Desertion,.	22	Males, Fem., .	17	17	1 1	လ က	1 1	ထတ	1 1	1 1	Ø 1	1 2	24		77	875	15.00
Extreme cruelty, .	81	Fem., .	81	64	ı	84	ı	1	1	1	_	-	<u>.</u>	<u>'</u>	1	21	10.50
Impotency,	-	Males,	-	-	1	ı	,	-	1	1	_	1	<u>'</u>	<u>'</u>	1	_	1.00
Intoxication,	4	Males, Fem.,	es	ss	1 1	1 69	1 1		1 1	1 1	109	- 1	11	1 1	<u>~~</u>	34	8.50
Non-support,	64	Fem.,.	61	67	ı	1	ı	81	1	1	1	-	-	-	<u> </u>	53	14.50
Nullity of marriage,	-	Males,	1	-	ı	ı	ı	_	ı	-	1	1	1		ı	t	ı
Totals,	67	Males, Fem.,.	27 40	26 40	1	14	1 1	28	1 1	- 1	8 1	13 1	10 5 10 5	77	~-	854	12.75

DIVORCES, 1896 — Continued.

MIDDLESEX,	N N	imber c of dui	Number of libels pending Jan. 1, 1896 (including all cases, whether decrees nist had been entered or not), '' fled during the year 1896, in which decrees nist had been entered at that date, '' in which decrees nist were entered during the year 1896, Number of cases in which nist decrees had been entered (whether pending January 1, or since entered), which were finally disposed of during the year 1896, Number of cases finally determined in 1896,	ing Jan. lug Jan. during line dec lich nist 1896, .	pending Jan. 1, 1896 (including spending Jan. 1, 1896, in which didd during the year 1896, In which decrees nist were enter which nist decrees had been e year 1896, finally determined in 1896,	includii n which 896, were et had bee	ng all cases to decrees the decrees the decrees to decree the new one entered to the decree the decree to the decree the	niei had niei had ring the y	pending Jan. 1, 1896 (including all cases, whether decrees nist had been entered at that date, pending Jan. 1, 1896, in which decrees nist had been entered at that date, filed during the year 1896,	n nied he red at il	nd been hat date	entered ince en	l or no	ot),		fibally	dispose		
			LIBELLANTS.				-	DIVORGE.				74	UKBER	OF YR	NUMBER OF YEARS MARRIED.	KKIED.			
CAUSES.		No.	SEX.		Not con- Con-	Con- tested.	Granted	Refused.	Granted Refused, tinued or Dis-	Under 6 mos.	Under 1 year.	= 210	22	208	8s	Over Unk.	k. Agre-		Aver-
Adultery,	•	48	Males, Fem.,.	23	18	ro 44	21	**		1 1	1 1	8 4	8 Q	9	∞ ⊷	1 09	~~~	200	10-42
Desertion,.	•	35	Males, Fem.,.	83	23	5 x	91 49	1	04 04	1 1	1 1	es 4	8 2	16 23	4.0	01 4	1,112		13.08
Extreme cruelty,	•	9	Males, Fem.,	4 99	89.5	17	44		၈ ၀	1-	1 1	1.1	- 4	17	1 2	1 1		48	11-40
Imprisonment, .	.	-	Fem.,.	-	-	1	1	1	1	1	ı	-	1			- <u>1</u>			1.00

	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 0 0 0 0	23 16 6 19	22 16 6 19 - 8	
1 60	1	1 60	1 60	1 60	1 60
	10 40	10 40	Moles 67	Moles 67	Moles 67
	48 19 59	48 19 59	(Malea, 67 48 19 59	(Malea, 67 48 19 59	(Malea, 67 48 19 59
1 9 2	8 - 48 19	67 48 19 56	Fem., 8	Fem., 8	Fem., 8
	& &	8 8 67 48	Fem., 8	Fem., 8	Fem., 8
	8 Fem.,		• • •	• • •	

· One case transferred to Suffolk County.

1	1	ا . د ا	8
		A Ve	8.00
		Granted Refased Discon- Under Under 1	80
	,	뇀	
	REIKD	t e	
	KY	_ & #	
	YEAR	222	1
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P	NUMBER OF TRABS MARRIED.	ms a	1
enter	7	#2#	1
d been		Jnder I year.	1
ate by		Inder Dos.	1
	_	₽ ₽ ₽	
e de		Disco tinued Dis- misse	,,
Abet	DIVOROR.	efused.	1
8	Ā	- 2	-
lla ga		Grant	•
(Includi 1896, 1896,			1
Number of libes pending Jan. 1, 1966 (including all cases, whether decrees sits had been entered or not), " filed during the year 1986, Number of cases finally determined in 1896,		Mot con- Con- tested. tested.	ı
			H
of Hbels per of cases fins	LIBELLANTS.	Bex.	Fem., .
Yumber Gumber		No.	1
NANTUCKET, { }		CAUSES.	Cruel and abusive treatment,

DIVORCES, 1896 — Continued.

NORFOLK, N	umber c	Number of libels pending Jan. 1, 1996 (including all cases, whether decrees mist had been entered or not), '' '' pending Jan. 1, 1996, in which decrees mist had been entered at that date, '' '' filed during the year 1996, '' in which decrees mist were entered during the year 1896, Number of cases in which mist decrees had been entered (whether pending January 1, or since entered), which were finally disposed of during the year 1896, Number of cases finally determined in 1996,	g Jan. 1, ig Jan. 1, ig Jan. 1, in the the the the the the the the the the	pending Jan. 1, 1996 (inclupending Jan. 1, 1894, in which decrees nist wert in which decrees nist wert in which nist decrees had it year 1895,	chuding which c %, %, pre ente d been d 6,	pending Jan. 1, 1996 (including all cases, whether decree pending Jan. 1, 1994, in which decrees nest had been entitled during the year 1996, in which decrees nest were entered during the year 1996, in which nest decrees had been entered (whether pending year 1896, in ally determined in 1896, in ally determined in 1896,	whether is the year is the year is whether i	pending Jan. 1, 1996 (including all cases, whether decrees mist had been epending Jan. 1, 1896, in which decrees mist had been entered at that date, filed during the year 1896, in which decrees mist were entered during the year 1896, in which mist decrees had been entered (whether pending January 1, or all year 1896,	ifet bad at tha	been en it date, it date, it or sin	tered Se ent	or not,	which	were 1	finally	dispo		
		LIBELLANTS.					DIVORUE.				~	TOMBE	NUMBER OF YEARS MARRIED.	EARS M	ZINN Y	ë		
CAUSES.	No.	SEX.		Not con- tested.	Con- tested	Granted Refused.		Discon- tinued or Dis- missed	Under • mos.	Under 1 year.	- 2 :	22	222	222	Over 1	Unk.	Aggre-gate.	Aver-
Adultery,	9	Males, Fem.,	- 4	T 4	11	-	1 1		1 1	1 1	1	1 80	 1	1 1	1 1	~~~	83	7-80
treatment,	81	Fem.,.	8	84	ı	81	ı	1	,	1	-	-	,	1	1	,	∞	4 ·00
Desertion,	- 31	Males, Fem.,.	7	14	1 1	7	1 1	1 1	i I	1 1	-8	- 1	20	- I	- 1	~~~	295	14.05
Extreme cruelty, .		Fem.,.	-	-	١	-	ı	ı	١	1	-	ı	1	1	1	1	4	4.00
Imprisonment,		Fem.,.	-	-	ı	-	1	•	ı	1	1	ı	1	_	1	1	88	28.00
Intoxication, .	•	Fem.,.	40	20	ı	•	ı	•	1	1	•	1	4	-	1	1	83	16.40
Non-support,	84	Fem.,.	67	2	1	1	1	-	ı	1	1	1	1	-	1	•	87	18.50
. Totals, .	37	Males, Fem.,.	886	83	11	28	1 1		1 1	1 1	1	-4.	17	œ	1	~~~	493	13.33

<u> </u>	fumber ::	Number of libels pending Jan. 1, 1996 (including all cases, whether decrees after had been entered or not), ' pending January 1, 1996, in which decrees afet had been entered at that date, ' flad during the year 1904.	ing Jan. Ing Jan.	pending Jan. 1, 1896 (inclu pending January 1, 1896, ii fled daring the year 1896.	lectods 96, in w	g all oast hich deer	s, wheth	pending Jan. 1, 1806 (including all cases, whether decrees afet had been enter pending January 1, 1896, in which decrees afet had been entered at that date, flact during the year 1896	ntef ba	d been e	ntered ato,	or 50	· · ·			• • •	8 2 2	eo eo eo
PLYMOUTH, {	i ampre	to who	ich dec	Too miles	Were en	tered du	dog the y	in which documents with were entered during the year 1896, in which wid documents had been entered during the standard control of the standard control				[o en
. A	of du	of during the year 1896,	1896, . 7 detern	lined to 1			(whether			7, 0		(pered)	A Block				3 5	•
		LIBELLANTS.					DIVORCE.				×	OKBER	NUMBER OF YEARS MARRIED.	RS MA	A STATE			
CAUSES.	No.	, gr		Not con- tested.	Con- tested.	Granted. Refused.		Discon- tinued or Dis- missed.	Under G mos.	Under 1 year.	-20	#2 2	28	\$2 8	Over Be U	Unk. Aggre-		Aver-
Adultery,	12	Males, Fem.,	4		100	4.0	1 1		1 1	1 1	- 1	64 SS	01 80	1 ==	1 1	~~~	123	10.25
Cruel and abusive treatment,	4	Males, Fem., .	−თ.	1 69		1 00	1 1	- 1	11	1 1		1 1	104	11	<u> </u>	~~ <u>~</u>	8	00.6
Desertion,	83	Males, Fem.,.	12	11		16	1 !	29 77	1 1	1 1	∞ Ι	44	28	819	- 	-¥- 	392	13.52
Extreme cruelty, .	န	Fem.,.	တ	64		-	•	8	1	ı	1	83	-		÷			8.66
Intoxication,	9	Fem.,.	9	တ	တ	4	ı	64	1	ı	1		4		<u>'</u>	 I	91	15.17
Non-support,	9	Fem.,	9	9	1	69	ı	4	•	1	1	တ	ဧာ		<u>'</u>			11.83
Nullity of marriage,	1	Males,	-	ı	Н	1	-	-	1	1	1	ı		1	<u>.</u>	1	63	2.00
Totals,	61	Males, Fem.,.	19	16 34	တ ထ	11 32	1 1	10	1 1	1 1	1	13 6	20	67.00		-{	738	12.10

DIVORCES, 1896 — Continued.

Chumber of cases finally determined in 1990,		LIBRLLANTS.	10				DIVORCE.				2.5	NUMBE	NUMBER OF YEARS MARKED.	EAR	MARK	ED.		
CAUSES.	No.	Service		Not con- tested.	Con- tested.	Granted, Refused.	Refused.	Discon- tinued or Dis- missed.	Under 6 mos.	Under 1 year.	-20	629	258	222	52	U BK	Aggre-	Aver-
Adultery,	187	Males, Fem.,	78	54 47	12	44	91	28	as 1	es 1	113	35	21	မ မ	14	~~	1,340	9.78
Cruel and abusive ireatment,	09	Males, Fem.,	11	98	13	31		17	1 04	100	13.2	4 81	3 17	88	1 1	~~~	109	8.40
Desertion,	214	Males, Fem.,	93	75 111	18	96	P-64	22.23	11	0.1.	12	66	35	6	4 64	~~~	2,478	11.58
Extreme cruelty, .	16	Fem.,	16	15	-	7	61	7	1	I	6	Q	-	-	ı	1	28	5.44
Imprisonment,	-	Fem.,.	1	1	1	, -	1	1		1	1	1	1	-	ı	,	22	25.00

Imputency,		\	м н	1	91	1 1	11	01 m	1 ==	1 1	- 1	1 1	- 1	1 1	1 1	~~~	71	4.66
Intoxication,	8	Males, Fem.,	82 4	5 5 8	116	88	ON 1	11	1 1	1 1	16	18 5	==	∞ ⊣	1 1	~~~	288	8.60
Non-support, , .	9	Fem.,.	07	34	9	71	9	8	-	1	2	13	==	•	ı		888	9.20
Nullity of marriage,	<u>-</u>	Malos, Fem.,	400	& -1	⊢ ⊗	- 04	 1	81	67 H	1 1	1-	H 1	H 1	1	1 1	~~~	29	7.48
Totals,	979	Males, Fem.,.	210 336	15 <u>4</u> 280	88	123	11	910	20.00	50 PM	22.52	811 811	23	32	4.6	~~	5,453	86.6

· Six probate appeals, I petition to vacate deure refused.

DIVORCES, 1896 — Concluded.

WORCESTER,	Number Number Number	Number of libels pending Jan. 1, 1896 (including all cases, whother decrees nist had been entered or not), " pending Jan. 1, 1896, in which decrees nist had been entered at that date, " in which decrees nist were entered during the year 1896. Number of cases in which nist decrees had been entered (whether pending January 1, or since entered), which were finally disposed of during the year 1896. Number of cases finally determined in 1896,	ling Jar ling Jar during hich de nich nie 1896, .	pending Jan. 1, 1996 (incipending Jan. 1, 1996, in welled during the year 1996, in which decrees nist wern which nist decrees had year 1996.	(including the which is which is were to had be had be.	ing all care. The decrees interest discrete in enteres.	es, whot s nisi had uring the d (wheth	pending Jan. 1, 1896 (including all cases, whother decrees nist had been epending Jan. 1, 1896, in which decrees nist had been entered at that date, filed during the year 1896, In which decrees nist were entered during the year 1896, In which nist decrees had been entered (whether pending January 1, or silen 1896,	es nfei h ered at i	ad bren bat date	entere	d or no	which		gally		250 50 171 118 114
	,	LIBELLANTS.	_				DIVORCE.				*	DEBRE	DF TEA	NUMBER OF TEARS MARKIED.	KIRD.		
CAUSES.	No.	8kx.		Not con- tested.	Con- tested.	Granted. Refused.		Discon- tinued or Dis- mi-sed.	Under ©	Under 1 year.	- Se	10 S 61	\$ 19 \$ 28 \$ 28	Over	- Cark	Aggre-	Aver-
Adultery,	27	Males, Fem.,	20	10	02	15 6	1 1	10	1 1	1 1	2	9	72 00		~ =	203	7.52
treatment,	18	Fem.,.	18	13	3	16	ı	64	1	-	တ	•	9	-		176	9.77
Desertion,	28	Males, Fem.,	25 33	88	21	822	1 1	တေ	1 1	1 1	- 4	9=	122	22	~~	782	13.48
Extreme cruelty, .	တ	Fem., .	တ	89	1	œ	ı	ı	1	ı		1		<u> </u>	1	37	12.33
Imprisonment,	83	Fem.,.	64	64	ı	64	1	ı	ı	ı	-	1	_	<u> </u>	ı	=======================================	9.50
Intoxication,	16	Males, Fem.,	1 15	14.		14	1 1		1 1	1 1	12	1 09	16	11	~~	136	8.50
Non-support,	4	Fem , .	4	4	ı	4	1	1	1	•	1	63	01	-		42	11.25
Nullity of marriage,	1	Males,	-	1	1	1	•	-	ı	ı	•	-	-	i	1	2	7.00
Totals,	129	Males, Fem.,.	47 82	85 87	17 9	87 77	1 1	10	1 1	1	9	12 21 8	31	8 2 1	~~	1,397	10.83

MEDICAL EXAMINERS' RETURNS. 1896.

MEDICAL EXAMINERS' RETURNS.

TABLE I. — BY STATE AND COUNTIES.

Exhibiting the Number of Deaths from Accident or Negligence, Suicide, Homicide, and Other Causes in Each County, which have been Investigated during the Year 1896, under the Medical Examiner Laws.

Worcester.	307	9	e =		1 1 1	88
Buffolk.	655	21	es -1	ဆက	9	108
Plymouth.	52	-	1.1	H 1	111	14
Morfolk.	68	н	1=	1 1	111	16
Mantucket.	-	ı	1 (1.1	1 1 1	-
Middlesex.	1 0 1	11	619	1 69	11	53
Hampshire.	38	-	1	1 1	1 1 1	4
Hampden.	180	ю		တေး၊	1 1 1	15
Franklin.	48	1	1 1	1 1	111	6
Essex.	306	15	စ္		141	41
Dukes.	1	ı	1 1	1 1	1 1 1	ı
Bristol.	253	6	1 ==	10	1691	20
Berkshire.	65	84	101	1 1	1 1 1	20
.eldatamad	20	-	1 1	н I	1 1 1	10
.HIAT&	2,416	73	15	15 10	16	818
Percentage.	100.00	3.03	1 1	1 1	1 .04	13.16
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	Number	Fotals,	Abo. Infa	Wea Firc-aru Stabbing	Pois Othe Exe	Totals,
	Bertable. Bertable. Bertablre. Bristol. Dukes. Franklin. Hampden. Hampden. Middlesex. Morfolk. Morfolk.	25 Berkehlre. 26 Berkehlre. 27 Bristol. 28 Bristol. 29 Bristol. 20 Essex. 20 Hampehire. 20 Hampehire. 20 Hampehire. 20 Hampehire. 20 Hampehire. 20 Hampehire. 21 Middlesex. 22 Hampehire. 23 Hampehire. 24 Hampehire. 25 Hampehire. 26 Hampehire. 27 Hampehire. 28 Hampehire. 29 Hampehire. 20 Hampehire. 20 Hampehire. 20 Hampehire. 20 Hampehire. 20 Hampehire. 20 Hampehire. 20 Hampehire.	3.02 2,416 Berrarbire. 3.02 2,416 Berrarbire. 100.00 2,416 Berrarbire. 1 2 253 Britatol. 1 306 48 180 Berrarbire. 1 306 1 1 Mandeex. 1 38 Hampehre. 1 1 38 52 655 Britatolk. 1 1 2 38 Hampehre. 1 1 2 38 Hampehre. 1 1 2 5 55 Britatolk. 1 2 5 5 Britatolk. 1 2 5 5 Britatolk. 1 2 5 5 Britatolk.		S. 02 7.3 1 100.00 Percentage. 100.00 2,416 Barnatable. 100.00 2,416 Bertablire. 100.00 2,416 100.00 Bertablire. 100.00 2,416 Bertablire. 100.0	Carbon target Carbon targe

TABLE I. - Concluded.

Worcester		16 113 14	23
Suffolk.		28 138 3	77
Plymouth		11 2	တ
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Nantucket		1-1	ı
Middlesex.		11 134 27	37
Hampshire.		1 25 62	ı
Hampden		200	19
Frankika.		27-1	ı
Essex.		17 105 24	56
Dukes.		1 1 1	1
Brietol.		144 6	16
Berkebire.		15	81
Barnstable.		1601	67
.atata		91 786 105	213
Percentage.		82.53 4.35	,
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	IV CAUSES NOT	Alcohol ism, Nuturul causes,. Causes unknown c	AUTOPSIES,

Table II. — Causes of Death (investigated by the Medical Examiners).

CLASSIFIED ARRANGEMENT.

Distinguishing by Mouths, by Age, and by Sex, the Number of Deaths and Causes of the Same, as returned by the Medical Examiners, for the Year

1896.

[Still-born included.]

1	ı	١.		69	22	7	1 1
1			Over 80 Unknown	- 45	- 83 - 83	25	
ļ			08 01 04	187	82	29	
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١	S		98 o) 98	332	269	8	
ı			12 to 80	2	47	17	•
ı			10 to 12	74	19	13	
١			0 to 10	92	97	19	1
		818	1 to 2 le	8.	29	31	
1		T (A week to year.	141	74	67	
1		. 490	Under I w	111	62	44	Ω.
		'	December	206	152	53	-
			November	167	127	40	-
			October.	219	167	62	'
		•	September	202	160	41	
			August.	275	198	79	1
	MONTHS.		July.	273	191	62	'
	MON		June.	181	138	42	
1			May.	506	161	45	
			April.	221	155	99	
			March.	154	8	54	
			February	191	141	49	
			January.	171	126	45	
			Totale.	2,416	•	•	•
	H8.		Unk.	•	•	•	.
	DEATHS.	Stx.	Fem.	•	•	828	•
			Males.	•	1,773	•	
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			9EX.	Persons,	Males, .	Females,	Unknown,

TABLE II. — Continued.

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s, sutting throat, Males,	Malber,	f Fem.	Males,		206, Fem.,	compounds, Males,	preparations, . { Males, . 1 1		•	. Males, . 52 60 37 76 Fem., . 10 11 9 16	Males, .	Males, . 2 -	ry Males, . - 2 -	lents,
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LABLE II. — Continued.

					K	MONTHS	H8.						DEATHS.	H8.							PΨ	AGES.						
Сацвев от Веати.	8EX.	-Vanuaty.	Рергиягу. Матсh.	April.	May.	Jane.	July.	August.	September. October.	Уочетрет.	December.	Males.	Females.	Unknown.	Totals.	Under I	I week to	I to 5 yrs.	2 10 10	12 0 20	80 108	0# 01 08	40 to 20	20 to 90	0 2 01 09	08 01 02	08 T9VO	Unknown.
III. Accident or Negligencs - Con. Public frace! - Con. - Electric railroad,	Males, .			81		~ 1	1 64			. #1	64 1	<u>a</u> .	• 60	• • •	, si	1.1	11	64 1	87					H 1	1 1	11		11
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- Horses,	Males, . /					11	11	11	61 1	87	~ 	.	•-	• •	œ •	1.1	1.1	77	11	64 1				- 1	11	64 1		11
Burns, scalds and explosions,	Malcs, . Fem., .	88	8 81	9 1			1.1	40	10 H	14	6 4	8 .	٠ ٤	• •	3 .	11	1 ==	228	87	P 1	- 1	84	• •	8 1 8	es 1	•• •	14	
Falls and blows,	Males, . Fem., .	94	#=	11	52	a =	8 8	80 10		26	54	8	.8	• •	132	11	- 1	10 CH	101	69 1		3 3	84	20	40	44	64 1	10
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Asphyzia. — Drowning,	Males, .	₽-61	27	2 16	E .	8 1	- 중 -	2 ∞	<u>a</u> -	21	8 1	220	-82	• •	8		11	51.4	88	- F - T -	7 8	8-	718	37	- 1	4-	64.1	۱ ۲
-Overlaying and asphyxia in bed,	Males, . Fem., .	æ		- 13	87	64.1				61 H	80 H	8 4 ·	.53	••	75 .	80	11	84			1.1		• •	11	1 1	17	1.1.	1 =
- in burning buildings,	Males, .	164	11	N 40		17	H 64		81	11	81	<u>۾</u>	. 23	• •	£ .	11	1 1	64 1	1 00	-8		81			11	1 1	1	• •
-Illuminating gases,	Males, .	17	87.7	81			161	-	11	00	90	a ·	16	••	8 .	1.1	11	17		18	1 ==	∞ 4	8 E	æ ı	24		11	~ 1
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- Oplum and its preparations, .	Males,			, ı	81	7.1						11		• 64	••	۰.	٠.	11	11	11	11	11	01 1	et 1	81		1=	· ·	
-Chloral hydrate,			-	<u>'</u>	1	,	_	-		-	<u>.</u>		•	-	•	,	•	-	.			•	1	_	•	•	<u>.</u>	•	
-Other poleons,	Males, .	. .		 -	1 1	1-	[=	1.1	11	11		51	•	• 64	• •	۰ ب	• •	1.		1	11	11	1	- 1	11	- 1	 TT	· ·	
Weather agencies Hoat and supstroke,	Malos, . Frm., .				11	- 11	11	64 1	84		-, ,		8 1.	••	• •	8 .	• • •	11		1.1	11	∞ ~	œ 61	01	64 1	-	64 1	(-	
- Exposure, including shipwreck,	Malos, .	•••			17	- 1 1	11		- 1		- i -	4-	• •	• 60	• •	۰.		11		1 1	1.1	64.1	~ 1	11	87	1 11			
- Electric shook,	Males, .		-	<u>'</u>		-	_	=	_	-	.	-	•	•	•	*	•	-	÷	1	1	_	OR .	_	•	•	÷	÷	,
Other accidental causes,	Malcs, .		.	1		•		_		_	.	Ţ	-	•	•	-	•	-	÷	1		_		1	1	_	.	÷	
V. CAUSES NOT DUE TO VIOLENCE. 1. ALCOHOLISM,	Males.		Ø 1		P-H	41	→ ⊢	- e el	20	F		90	<u> </u>	.#	• •	2.	11			- 1 1	11	90	8 4	54	<u> </u>	60			
2. Natural Causes,	Males, . Fem.; Unk, .		881 89.	34 I	23,	48 ,	887	881	2 2 1	82.	27 26	£2.	\$	819	• • • • • •	987	\$8 a	88 1	<u> </u>	441	104	8 44 ,	28,	28 1	184	281	581	201 201	
Zymotic diseases,	Malcs, . Fem., .	•	69 1	1 =			64 65	40	တက	1 11	1=	0 I	# .	1.	• •	꽃 .	11	-4 00	40	18		71	177		61		1=	· ·	
Constitutional atteants. - Philpish and Hemoplysis.	Males, .			91	87		11	164			11	95	¥ ·	.5	• •	4 .	11	- 1	''	11	61 11	-8			40	169		• •	
- Other constitutional diseases, . Local diseases.	Males, Fem.,				AT		1=	1-	C4 00	18		18	٠·	••	• •	8E .	1 1	64		11	11	11	~ 01	7-		1-	11		
1. Nervous system. — Apoplexy,	Males, .		200	44	8 4	04	2011	601	6 8	919	40	-64	5 .	.\$	• •	011	1.1	11		1 1			& 4	P-10	80	12 2	22	* =	- 1
-Epilepsy,	Males.	••			164		- 64		11				•• ·	•	• •	8 .				<u> </u>	11	9 11	-64	1 -	7-	1-	11	11	
- Moningitis and other brain dis- Males, . eases,	Males, Fem.,		88	804	80 64	87	о н	80 CH			69 1	18	8 ·	· *	•	å .		110		11		H 61	==	- T		T=	=-		

TABLE II. -- Concluded.

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IV CAUSES NOT DUE TO VIOLENCE			_	ISM TO A	May	nut	(luc			— 		IAM	Len	ıuΩ	IOT	<u> </u>				UL		12	12	80 80 12	80 80 12	20 20 40 40 80 80 12 80 12	90 90 90 90 90 90 90 90 90 90 90 90 90 9	02 09 09 05 05 08
-Con. Local diseases - Con. 2. Organs of circulationHeart diseases,	Males,	82	- 20	1.41	85 81 82 82 82 82	50	• =	77	——————————————————————————————————————	89	= # # # # # # # # # # # # # # # # # # #	25 E	18.		88.	1.7	FA					01 80	91 to 52 to	8 8 23 12 23	8 22 8 22 28 28 28 28 28 28 28 28 28 28	8 13 22 38 88 11 22 18	8 22 8 28 28 28 28 28 28 28 28 28 28 28	8 13 25 38 42 42 18 24 42
Aneurlam,	Males, .				<u>.</u>				-	_	.	-		•	-	•	•	-				-	-					
-Other diseases of circulatory organs,	Males, . Fem., .	-11	-11	18		11	17	- 1	-11		1=	61	• 60	••	٠ .	11	11		11	-11		H T	ie ei	11 12 41	11 16 16	11 12 41	1 m	
8. Organs of respiration. - Bronchitis	Males.	11	-71		- TH	1 I	- 11						•=	••	4.	1.	64 1-	- 11				- 11	- 11	11	11	11	11	11
- Paeamonia,	Males, .	-8	4 %	∞ ⊢	4H	1 m	64	-8		1=	64 /	2 T	.4	•••	8 .	11	eo eo	64 F					8 7 7	87	21 21	84 44	21 21	84 84 41
- Other diseases of respiratory organs,	Males, .		60 I	100	∞ =	- 1 1				1 64		••	••-	•••	8 ·		- 1	1=		11		11	FF	<u>н</u> н	 	 		
4. Digestive organs. — Pertualits	Males, .	~~	1 64		- 		11		1 64			₩·	• 60	• •	Ξ.	11	11					11	77	- FM	1 m	18	1 m	
-Other diseases of digestive organs,	Males, . Fem., .	7.7		-64		1		-	~ T			٠ .	• •	• •	• •		1 69		FI	1		11	11		11 11 44	HH 11 11 HH	11 11 44	11 11 11
5. Urinary organs. Nephritis,	Males, .				-11				- 10			••	• 64		* •			ਜ							——————————————————————————————————————			—

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EDITORIAL OBSERVATIONS

BY

FRANCIS A. HARRIS, M.D.



FIFTY-FIFTH REGISTRATION REPORT.

(1896.)

The following observations upon the statistics of the Births, Marriages and Deaths registered in Massachusetts in the year 1896, together with some comments upon the statistics of Divorce and the Returns of the Medical Examiners, are intended to set forth the principal points of interest derived from a study of the figures and to furnish some comparisons between the statistics of the year 1896 and those of other years, and to render these statistics "of practical utility" within the meaning of the statute providing for the preparation of this report.

The plan pursued in this report is the same as was followed in the reports for the years 1891-94 in the matter of condensation and the avoidance of what was apparently superfluous repetition of the same matter.

Many tables published in the report for 1895 whose value is dependent upon an accurate knowledge of the number of the population, a knowledge only to be had in census years, are omitted in the report for 1896.

The editor is indebted to the work of Professor Richmond Mayo-Smith of Columbia College on Statistics and Sociology for the statistics as to births, marriages and deaths in many foreign countries which are presented in tables under their appropriate heads and which give the average rates for the period of twenty years 1871–90 and the rates for the years 1891, 1892 and 1893.

The number of births returned by the Registration Officers of Massachusetts for the year 1896 was 72,343, the number of marriages was 23,651 and of deaths 49,381; or, 4,798 more births, 549 more marriages and 1,841 more deaths than were recorded in 1895.

The aggregate registration including 2,615 still-births was 147,990 which was 7,436 greater than that of 1895.

The excess of living births over deaths was 22,962. This was greater by 2,957 than the excess in 1895, and was greater than that of any other year since the beginning of registration.

Table 1. — Births, Marriages and Deaths, with the Population and Rates for Census Years 1851-1896.

Yı	iars.		Population.	Births.	Marriages.	Deaths.	Excess of Births over Deaths.	Births to 1,000 Persons.	Persons Married to 1,000.	Deaths to 1,000 Persons.	Excess Rate of Births over Deaths.
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4074						l		i			
1851,	•	•	1,022,084	28,661	11,966	18,934	9,727	-	-	-	-
1852, 1853,	•	•	1,049,654 1,077,224	29,802 30,920	11.578 12,828	18,482 20,301	11,320 10,619		-	-	-
1854,	:	:	1,104,794	81,997	13,683	21,414	10,583		_	-	
1855,	•	•	1,132,864	82,845	12,329	20,798	12,047	29.01	21.77	18:37	10.64
1856,	•		1,152,105	84,445	12,265	20,734	18,711	-	-	_	-
1857, 1858,	•	•	1,171,846	85,320	11,739	21,280 20,776	14,040	-	-	-	-
1859,	:	•	1,191,586 1,211,327	84,491 85,442	10,527 11,475	20,776	18,715 14,466	-	-	-	-
1860,	•		1,231,067	86,051	12,404	28,068	12,983	29.28	20 · 15	18.74	10.54
1861,			1,238,260	35,445 82,275	10,972	24,095	11,860	-	-	_	-
1862,	•	•	1,245,453	82,275	11,014	22,974	9,301	-	-	-	-
1863, 1864,	•	•	1,252,646 1,259,839	30,314	10,873	27,751	2,563	- 1	-	-	-
1865,	:		1,267,031	80,449 80,249	12,518 18,051	28,753 26,152	1,696 4,097	23.87	20.60	20.64	8.23
1866,			1,305,095	84,085	14,428	23,637	10,448	_	_	_	_
1867,	•		1,343,159	35,062	14,451	22,773	12,289	-	-	-	-
1868,	•	•	1,881,223	36,193	13,856	25,603	10,590	-	-	-	-
1869, 1870,	:	:	1,419,287 1,457,351	86,141 88,259	14,826 14,721	26,054 27,329	10,087 10,930	26.25	20.20	18.75	7.50
1871,			1,496,263	39,791	15,746	27,943	11,848	_	_	_	
1872,	:		1,535,175	48,235	16,142	35,019	8,216	_	_	_	
1873,			1,574,087	44,481	16,437	83,912	10,569	-	_	-	-
1874,	•	•	1,612,999	45,631	15,564	31,887	13,744				
1875,	•	•	1,651,912	43,996	13,663	34,978	9,018	26 · 63	16.54	21.17	5-46
1876,	•	•	1,678,147	42,149	12,749	83,186	8,963	-	-	-	-
1877, 1878,	•	•	1,704,382	41,850	12,758	81,342	10,508	-	-	-	-
1879	:	:	1,730,616 1,756,851	41,238	12,893 13,802	31,303 31,801	9,985 8,494	_	_	_	-
1890,	•		1,783,085	40,295 44,217	15,538	85,292	8,925	24.80	17.42	19.79	5.01
1881,			1,814.896	45,220	16,768	86,458	8,762	-	_	_	-
1882,	•	•	1,846,707	45,670	17,684	36,785	8,885	-	-	-	-
1883, 1884,	:	•	1,878,518 1,910,829	47,285 48,615	18,194 17,888	37,748 36,990	9,537 11,625	_		_	-
1885,	:		1,942,141	48,790	17,052	38,094	10,696	25 · 12	17.56	19.61	5.51
1886,	•		2,001,501	50,788	18,018	37,244	18,544	_	-	-	_
1887,	•	•	2,060,861	53,174	19.533	40,763	12,411 12,796	-	-	-	-
1888,	•	•	2,120,221	54,893	19,789	42,097	12,796	-	-	-	-
1899, 1890,	:	:	2,179,582 2,238,943	57,075 57,777	20,397 20,838	41,777 43,528	15,298 14,249	25.81	18-62	19-44	6.87
1891,			2,288,911	63,004	21,675	45,185	17,819		_	_	l _
1892,			2,339,994	65,824	22,507	48,762	17,057	_	_	-	-
1893,	•	•	2,392,217	67,192	22,814	49,084	18,108	-	-	-	-
1894, 1895,	:	:	2,445,605 2,500,183	66,936 67,545	20,619 23,102	46,791 47,540	20,145 20,005	27:02	18-48	19.01	8.00
1896,			2,555,987	72,848	28,651	49,881	22,962		I		
	<u>.</u>	•	2,000,001	12,010	20,001	40,001	22,502	<u> </u>			

The ratios to the population for 1896 were as follows, as calculated upon the estimated number of the population of 1896, namely 2.555.987:—

Birth-rate 28.30 to 1,000 of the population; marriage rate (marriages), 9.26; persons married, 18.51; death-rate, 19.03; excess of births over deaths, 9.27.

The same data also indicate a daily average of 198 births, 65 marriages and 135 deaths during the year 1896.

In Table 1 are presented the population, the number of births, marriages and deaths, the excess of births over deaths, the birth, marriage and death rates, and the natural rate of increase of the population for a period of forty-six years. The rates are calculated only for the census years.

Table 2 presents the number of the population of Massachusetts with the total increase by periods of five years as compared with previous census years compiled from Provincial, United States and State Census Reports.

Table 2.—Population of Massachusetts showing Increase as compared with Previous Census Years (1765–1895), compiled from Provincial, United States and State Census Reports.*

	YEAR	t8.				Population.	Increase (+) or Decrease (-) as compared with Previous Census.
1765 (Prov.),						239,764	_
1776 (Prov.).					.	299,841	+ 60,077
1790 (U. S.)					.	378,787	+ 78,946
1800 (U. S.)	•					422,845	+ 44,058
1810 (U. S.)		•				472,040	+ 49,195
1820 (U. S.)					.	523,287	+51,247
1830 (U. S.)		•			. 1	610,408	+87,121
1840 (U. S.)					.	787,700	+127,292
1850 (U. S.)					.	994,514	+256,814
1855 (State)						1,132,369	+137,855
1860 (U. S.)						1,231,066	+ 98,697
1865 (State)						1,267,031	+ 35,965
1870 (U. S.),		•				1,457,351	+190,320
1875 (State)		-	-			1,651,912	+194,561
1880 (U. S.)	-	•	•	·	:	1,783,085	+131,173
1885 (State)	:					. 1,942,141	+159,056
1890 (U. S.),.	•	•	•	•		2,238,943	296,802
1895 (State),.	•	•	•	•		2,500,183	+261,240

[•] Census of Massachusetts, Part 2, 1895, p. 216.

BIRTHS.

The number of births registered in 1896 was 72,343, which was larger than that of any year since the beginning of registration in Massachusetts; the rate for living births as calculated from the population whose number is estimated as 2,555,987 (28.30) was greater than that of any year since 1861 and also greater than that of any five-year period since those of 1851–1855 and 1856–1860.

The number of births and still-births for a period of twenty years 1877-1896 is presented in the following table (and in table 4 the birth-rates for forty-six years, and for forty-five years in groups of five-year periods).

YEAR	s.	Born Alive.	Still-Born.	Totals.	YEARS.	Born Alive.	Still-Born.	Totals.
1877,		41,850	1,254	43,104	1887, .	53,174	1,794	54,968
1878,		44,238	1,261	42,499	1888, .	54,893	1,943	56,836
1879,		40,295	1,261	41,556	1889, .	57,075	2,021	59,096
1880,		44,217	1,297	45,514	1890, .	57,777	2,099	59,876
1881,		45,220	1,466	46,686	1891, .	63,004	2,222	65,226
1882,		45,6 70	1,485	47,155	1892, .	65,824	2,293	68,117
1883,		47,285	1,589	48,874	1893, .	67,192	2,444	69,636
1884,		48,615	1,628	50,243	1894, .	66,936	2,353	69,289
1885,		48,790	1,589	50,379	1895, .	67,545	2,867	69,912
1886,	•	50,788	1,796	52,584	1896, .	72,343	2,615	74,958

TABLE 3. — Births for Twenty Years.

The birth-rate for 1896, including still-births, was 29.33, or 1.00 for still-births alone, as compared with 27.96 and .94 in 1895.

TABLE 4. - Showing Birth-rates, 1851-1896.

	YEA	26.		Births to 1,	000 of Popu- ion.	Yra	RS.		Births to 1,	000 of Popu- ion.
1851.				28.04	1,	1876, .			25.12	<u> </u>
1852,		•	•	28.39	11 1	1877,	•	:	24.55	
1853,		:		28.70	28.63	1878,	•	•	23.88	24.29
1854,		•	•	28.96	1 6 00	1879, .	•	Ċ	22.94] [
1855,		:	:	29.01	j	1880, .	:	:	24.80	J
1856,				29.89	1	1881, .			24.91	1
1857,	•	•		80.14	11 1	1882, .			24.78	11
1858,				28.95	29.50	1883, .			25 · 17	25.08
1859,				29 · 26	11	1884, .			25.45	11
1860,	•	•	•	29 · 28	 	1885, .	•	•	25 · 12	IJ
1861,				28-62	h	1886, .			25.37	h
1862,				25.91	i	1887, .			25.80	li
1863,				24.20	> 25.34	1888, .			25.89	25.82
1864,				24 · 17	l i	1889, .			26.19	11
1865,	•	•	•	23 · 87		1890, .	•	•	25.81)
1866,				26 · 12	h	1891, .			27.58	1
1867,		•	•	26 · 11]	1892, .	•		28.13	11
1868,				26 · 21	26.02	1893, .			28.09	27.62
1869,		•		25.46	11	1894, .	•		27 · 37	!
1870,	•	•	•	26 · 25		1895, .	•	•	27 · 02)
1871,				26 · 60	ا ا	1896, .			28.30	ŀ
1872,		•		28 ·16	[]					١ ،
1873,		•		28 · 26	27.58					
1874,		•		28 · 29						1
1875,	•			26.63	D I					1

In Table 5 are presented the birth-rates for Massachusetts and several foreign countries. This table gives the average rates for the period of twenty years (1871–1890) and the rates for the years 1891, 1892 and 1893. For the data of this table credit, as previously stated, is due to the work of Dr. Richmond Mayo-Smith, Ph.D., of Columbia College, on Statistics and Sociology.

France. .

AVERAGE. COUNTRIES. 1871-00 1601 1600 1892. Massachusetts. 25.71 27 - 53 28 - 13 28.09 Hungary, 1876-90. 44.0 42.3 40.3 42.5 Austria. 38.6 38 - 1 36 · 2 Germany. 38 · 1 87 . 0 35 · 7 86 - 7 Italy. 87 . 3 37 . 3 36.8 36.6 Holland, 85.2 33.7 39.0 83.8 England and Wales, 84.0 81 - 4 80.5 80.8 Scotland. 33.6 81.2 8.08 81 -0 United Kingdom, . 82.6 80.4 29 . 5 29.9 Denmark. 91.7 81.0 29.5 80.6 Belgium. 81.0 29.6 28.9 29.5 30.7 30.9 Norway. 29.6 30.7 Sweden. 29.8 28.3 27.0 29 · 4 28 · 3 28 · 1 Switzerland. . 28.5 Ireland.. 24.9 28 - 1 22 · 4 23.0

Table 5. — Comparative Birth-rates.

In table 6 are presented the number of births by counties for a period of twenty-seven years and the birth-rates of census years. In this table the births of each county for any given year and the birth-rate for any census year may be compared with those of other counties and with those of the State for the same year, and also with the births of the same county in other years as well as the birth-rates of the counties in census years.

24.6

22.6

22.1

This table shows a considerable uniformity in the birth-rates of the different counties when the birth-rates for counties are compared for different census years, while compared with each other the birth-rates present considerable variations, Essex county having the highest rate and Nantucket, Dukes and Norfolk the lowest.

As compared with the births for 1895 there was a decrease in Barnstable and Dukes and an increase in all the rest.

Table 6. — Births, 1870-1896, and Birth-rates in Census Years 1865-1895, by Counties.

Whole State.	267,081 1,457,081 1,457,912 1,942,141 28,943 28,943 28,943 28,943 28,943 28,943 28,996 44,481 42,149 41,295 41,295 41,295 41,295 41,296 41,296 41,298 41,298 41,298 41,298 41,298 41,298 41,298 41,288 41,288 42,188 42,188 44,670 47,885 48,615
Worcester.	162,912 192,716 192,716 192,716 241,039 241,039 24,039 5,712 5,712 5,715 5,715 5,038 5,038 5,038 6,155 6,155 6,155 6,155
Suffolk.	208,212 270,802 364,982 421,109 484,780 27.55 81614 81.52 11,582 11,582 11,582 11,070 11,124 11,124 11,124 11,124 11,124 11,124 11,124 11,124 11,124 11,124 11,124 11,124 11,124 11,124 11,124
Plymouth.	65,365 65,365 74,018 81,680 81,680 92,700 20.9 1,463 11,452 11,450 11,450 11,450 11,450 11,450 11,450 11,450 11,450 11,450 11,450 11,450 11,450
Morfolk.	116,806 88,3443 88,321 102,142 102,142 118,950 12,052 12,052 12,002 12,003 12,003 12,003 12,003 12,003 14,10 16,003 16,00
Nantneket.	4,748 3,203 3,142 3,142 3,142 3,142 110•11 61 61 62 63 64 64 65 66 67 68 69 69 64 60 60 60 60 60 60 60 60 60 60
Middlesex.	220,384 274,358 317,8310 357,311 24.4 24.4 27,444 7,289 7,294 7,294 7,294 7,294 7,294 7,294 7,294 7,294 7,268 8,050 8,050 8,067 8,07 8,07 8,07 8,07 8,07 8,07 8,07 8,0
Hampehire.	99,269 44,828 44,828 48,472 21,019 22,019 23,019 24,019 24,039 24
H ampden.	64,570 97,840 97,840 116,744 116,764 126,764 126,713 126,71
Franklin.	31,340 38,085 38,000 37,449 38,000 18,42 18,40 644 617 635 635 635 635 635 635 635 637 637 637 637 637 637 637 637 637 637
Essex.	220,345 220,345 220,345 221,34
Dages.	20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.00000 20.0000 20.0000 20.0000 20.0000 20.0000 20.0000 20.00000 20.0000 20.0000 20.0000 20.0000 20.0000 20.0000 20.00000 20.0000 20.0000 20.0000 20.0000 20.0000 20.0000 20.00000 20.0000 20.0000 20.0000 20.0000 20.0000 20.0000 20.00000 20.0000 20.0000 20.0000 20.0000 20.0000 20.0000 20.000
Bristol	89,895 131,086 131,086 131,086 158,498 186,498 1326 1326 1326 1326 1326 1326 1326 1326
Berkehire.	66,944 68,827 68,827 73,828 81,108 81,108 81,108 11,784 11,637 11,537 11,508 11
Bernstable.	23,4410 32,744 31,897 29,145 29,172 20,172 20,172 669 669 669 669 669 669 669 66
	1865,
	Population, 1865 " 1870 " 1870 " 1885 " 1890 Birth-rates, 1 Living births, 1 " " " " " " " " " " " " " " " " " " "

Table 6. — Births, 1870-1896, and Birth-rates in Census Years 1865-1895, by Counties — Concluded.

Whole State.	26.1 50.788 53.174 54.893 57,075 57,075 63,004 67,524 67,545 67,545 67,545 72,548 4.60 4.50	
Worrester.	24.74 6,4836 7,0886 7,0886 7,320 7,320 8,237 8,237 8,134 8,536 8,636 8,636 8,636 4.55 4.55	
Saffolk.	28.7 12,556 112,776 113,525 114,046 28.99 115,527 116,408 116,768 116,768 117,779 4 · 84	
Plymouth.	18.7 1,553 1,559 1,667 1,758 1,905 1,905 1,905 1,905 1,976 2,064 2,064 2,017 4.24 4.24 4.24 4.24 4.24	
Norfolk.	8.8528 8.928 8.93828 8.93828 8.93877 8.93873 8.9387	
Nantucket.	11.46 36 56 56 56 56 56 56 18.24 18.24 8.41 8.41 8.06	
Middlesex.	24.7 9,046 9,026 10,105 10,925 11,149 25,85 11,149 11,149 11,149 11,135 11,135 11,135 11,135 11,135 11,135 11,135 11,135 11,135 11,135 11,135 11,135 11,135 11,135	
Hampshire.	19.7 1,1062 1,062 1,062 1,062 1,084 1,126 1,129 1,194 1,194 1,194 1,194 1,194 1,194 1,298 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288	
Hampden.	9.69 9.64 9.64 9.65 9.65 9.65 9.65 9.65 9.65 9.65 9.65	
Frankiin.	18.9 756 740 828 828 760 19.6 813 813 809 901 901 4.2 4.2 4.2 4.2	
Essex.	88.0 6,8536 6,8636 7,804 7,104 8,308 8,308 8,177 8,177 8,177 8,177 8,177 8,177 8,146 8,746 8,746 8,746 8,746 8,746 8,746 8,746 8,746	
Dukes	3. 39 65 86 86 86 86 86 86 86 86 86 86 86 86 86	_
Lotalz	4.59 4.59 4.59 4.59 6.103 6.103 4.59 4.59 4.59 4.59 4.59	
Berkshire,	26.41 2,026 2,139 2,159 2,159 2,083 2,083 2,285 2,193 2,285 4 - 69 4 - 69	
Barnatable.	17.4 4.88 5.01 5.89 5.80 5.80 5.80 5.80 6.80 5.80 6.80 6.80 6.80 6.80 6.80 6.80 6.80 6	
	1885, 1886, 1887, 1888, 1889, 1889, 1890, 1891, 1892, 1895,	
	Birth-rates, 1885 Living births, 1886 " 1889 " 1889 Birth-rates, 1890 Living births, 1891 Birth-rates, 1894 " 1894 " 1895 " 1895 Living births, 1895 Living births, 1896 Living births, 18	,

Seasons of the Year. — In tables 7 and 8 is shown the relation of the birth-rate to the seasons of the year; in the former table the data of 1896 are compared with those of 1895, by months and quarters, and in the latter the number of births in each month for a period of twenty years is presented.

TABLE 7. — Births and Birth-rates, by Months and Quarters, 1895-1896.

	registere	rths d in Each nth.	Birt registered Quar	in Each	Percer	nthly ntage of rths.	Quar Percen Bir	tage of
	1895.	1896.	1895.	1896.	1895.	1896.	1895.	1896.
January, .	5,803	5,852	1		(8.5	8.1	 	
February, .	6,269	5,543	16,513	17,411	7.8	7.7	24.5	24-1
March, .	5,441	6,016	J		8.0	8.3		
April,	5,033	5,902)		(7.5	8.2	1	
May,	5,467	5,952	15,966	17,694	8.1	8-2	23.6	24.5
June,	5,466	5,840	}		8-1	8·1]	
July,	5,927	6,229)		8.8	8.5)	
August, .	6,034	6,551	17,807	18,986	8.9	9.1	26.4	26 · 2
September, .	5,846	6,206	 }		8.7	8.6	}	
October, .	5,891	6,123	j		8.8	8.5)	
November, .	5,461	5,943	17,255	18,242	8.1	8.2	25.5	25 - 2
December, .	5,903	6,176	J		8.7	8.5		
The Year,*	67,541	72,388	67,541	72,333	100.0	100.0	100.0	100 · 0

[•] From this table are omitted in calculation 4 births occurring in 1895 and 10 births occurring in 1896, the dates of which are unspecified.

The largest number of births in a single month in 1896 occurred in August and in the third quarter of the year, and the least number occurred in February and in the first quarter.

Table 8. — Living Births. — By Months, Quarters and Periods of Six Months. — Twenty Years.

YEARS.		January.	February.	March.	April.	May.	June.	July.	Angust	September.	October.	November.	December.
1877,		3,404	3,127	3,436	3,078	3,146	3,314	8,734	3,854	8,677	3,796	3,607	3,67
1878,		3,181	3,116	8,442	8,172	3,248	3,121	3,525	8,765	8,689	3,776	3,555	8,69
1879,		8,226	3,064	3,822	3,048	3,125	3,275	8,544	8,720	8,372	3,476	8,505	8,61
1880,		8,872	3,869	3,579	8,521	3,708	3,642	3,840	3,921	3,845	8,845	8,791	3,77
1881,	•	8,641	3,475	8,703	3,567	8,713	3,595	3,949	4,263	3,856	8,827	3,783	3,84
1882,		3,651	8,449	8,808	3,721	8,516	3,614	3,942	4,162	3,970	4,084	3,784	8,96
1883,		8,654	3,465	8,869	8,574	8,662	3,861	4,204	4,323	4,241	4,326	4,083	4,06
1884,		2,887	3,812	4,008	3,819	3,959	8,992	4,192	4,293	4,189	4,173	4,008	4,28
1885,		8,965	3,821	4,104	3,886	4,001	8,840	4,219	4,461	4,246	4,194	8,992	4,10
1886,		4,060	3,803	4,273	8,876	3,951	4,033	4,491	4,569	4,555	4,578	4,209	4,38
1887,		4,263	4,070	4,480	4,167	4,306	4,387	4,682	4,884	4,598	4,563	4,450	4,49
1888,		4,476	4,145	4,582	4,010	4,336	4,670	5,082	4,963	4,855	4,665	4,440	4,70
1889,		4,564	4,276	4,774	4,621	4,546	4,635	5,070	5,174	4,944	4,858	4,712	4,90
1890,		4,947	4,488	4,891	4,436	4,757	4,645	5,147	5,270	4,559	4,569	4,730	5,8
1891,		5,347	4,905	5,448	4,812	5,002	5,119	5,585	5,581	5,888	5,251	5,232	5,8
1892,		5,426	5,043	5,438	5,220	5,342	5,129	5,895	5,833	5,590	5,330	5,576	5,91
1893,		5,611	5,107	5,549	5,391	5,163	5,457	6,095	6,173	5,638	5,716	5,519	5,70
1894,		5,500	4,978	5,681	5,529	5,472	5,506	5,999	5,794	5,458	5,530	5,579	5,9
1895,•		5,803	5 ,26 9	5,441	5,033	5,467	5,466	5,927	6,034	5,846	5,891	5,461	5,9
1896,	•	4,342	5,543	6,016	5,902	5,952	5,840	6,229	6,551	6,206	6,123	5,943	6,1
Average,	•	4,266	4,116	4,487	4,217	4,819	4,355	1,765	4,879	4,634	4,629	4,495	4,60
Quarters,	•		12,869			12,891			14,278			13,820	
Half-years,				25,	760					28,	098		

^{*} The deaths from unspecified dates are excluded.

For the period of twenty years (1877-1896) 53.08 per cent. of the births occurred in the last half of the years of the period, 23.5 per cent. in the first quarter, 23.4 per cent. in the second quarter, 27.0 per cent. in the third quarter and 26.1 per cent. in the last quarter.

The largest average number of births for the period of twenty years occurred in the month of August, and the order of the remaining months was as follows: July, December, September, October, November, March, June, May, January, April, February.

	1	1895.	1896.	Previous Ten Years, 1887-1896
(Males, .	. 8	4,623	37,186	312,043
Born alive, . ? Females,	. 3	2,905	35,114	296,818
Not stated,	.	17	43	328
Males to 100 females, .	. 1	105-2	105.6	105 · 1
(Males, .		1,423	1,424	12,598
Still-born, ? Females,	.	892	854	8,207
(Not stated,	.	52	75	775
Males to 100 females, .	. 1	59.5	156.5	153.5

Table 9. — Births. — Ratio of Males to Females. — Ten Years.

In table 9 are presented the statistics in regard to the sex of children born alive which appear to show that the ratio of males to females, exclusive of the cases where the sex was not stated, was 105.6 as compared with 105.2 in 1895, 105.4 in 1894, 104.6 in 1893, 105.6 in 1892 and 105.1 for the ten year period 1887–1896. From the same table it appears that the ratio of males to females among the still-born was in 1896 156.5 as compared with 159.5 in 1895, 166.8 in 1894 and 153.5 for the ten year period.

In table 10 are presented the statistics relative to the parentage of children born alive in Massachusetts in 1896, together with those relating to the parentage of plural births.

The excess of children born of foreign parents over those of native parentage in 1896 was 11,427, which was greater by 1,650 than the excess of the same class in 1895. It was also greater than that of any other year since the beginning of registration.

The number of children born of mixed parentage was 15,033 which was greater by 1,186 than the number of this class in 1895 and greater than that of any previous year.

There was an increase in the number of children born of mixed parentage in every county except Hampden, where there was a decrease of one as compared with 1895.

In table 11 the percentages of native and foreign-born children are given for a series of years, 1887-1896, by which it appears that the percentage of native-born children has decreased with considerable uniformity during the decade, and it

is also true if a longer period of years is taken into account, and it is less in 1896 than in any other year since the beginning of registration.

The percentage of children born of foreign parents was greater than that of any previous year since 1874.

The percentage of children born of mixed parentage was greater than that of 1887, 1889, 1893 and 1895 but less than that of any other year in the decade 1887–1896.

TABLE 10. — Parentage of the Children born alive in the Several Counties of Massachusetts during the Year 1896.

Aggregates, 72,343 494 2,285 7,280 66	t		901		imaH	rees[bb])/(Mantack	Nortolk	Plymout	Saffolk.	esteeoro W
				4,998	1,298	14,135	19	8,238	2,217	17,779	8,845
Both parents foreign-born, 22,810 288 1,148 1,669 36 Both parents foreign-born, 94,287 110 664 4,197 14	197 14	8,079 8,806	487 290	1,543	541 484	4,373	424	1,231	1,101 654	4,336 9,456	2,948 4,089
7,792 48 249 742	742 11	696	63	504	150	1,580	10	352	258	1,995	998
7,241 57 226 662	662 6	857	69	460	120	1,408	9	322	194	1,912	953
Not stated, 263 1 3 11 -	-	8	61	7	တ	49	1	23	10	8	89

PLURALITY CASES. — (Included above.)

186 107 79	11
220	
326 160 166	
24 24 24 24 24 24 24 24 24 24 24 24 24 2	
01 88 84	
64-1-	
254 118 136	
26 12 12	
103 50 53	
28 11 16 16	
198 108 90	
811	
148 77 71	
47 30 17	
ထလးက	
1,468 755 713	
Aggregates, Males, Females,	
Totals,	

TABLE 11. — Percentage • of Native and Foreign Living Births in 1896, and in each of the Previous Nine Years.

							PARENTS.		Births with
		YEAR				Native-born.	Foreign-born.	One Foreign- born.	Parentage not reported.
1887,		•		•		38 · 22	43.09	18.69	308
1888,				•		36 - 76	42.09	21 · 15	270
1889,	•	•	•		•	35 · 68	48.61	20.72	292
1890,		•	•	•	•	34.82	44-10	21.08	272
1891,	•		•		•	84.03	44.84	21 · 13	352
1892,	•					33 · 34	45.73	20.93	443
1893,		•				32.57	47.00	20.43	287
1894,			•			32.58	46.51	20.91	270
1895,						32 · 45	46.98	20.57	219
1896,						31.65	47 · 49	20.86	263

^{*} Excluding births with parentage not reported.

TABLE 12. - Number of Births during each of the Twenty Years 1876-1895, exhibiting the Sex and Parentage.

	!	1877.	1878.	1878.	186	1881.	1862.	1883.	1884.	1885.	1886.
Totals,		41,860 21,466 20,876 9	41,238 21,199 20,092 17	40,295 20,658 19,623	44,217 22,667 21,396 164	45,220 23,014 22,069 137	45,670 23,281 22,292 97	47,285 24,388 22,875 22	48,615 24,941 23,658 16	48,790 25,053 28,716 21	50,788 25,959 24,822
Parentage. Foreign, Native father and foreign mother, Foreign father and native mother, Not stated,	• • • • •	16,897 18,071 2,502 3,572 808	16,970 17,105 2,637 3,680 846	16,768 16,298 2,723 3,665	18,130 17,651 3,141 4,044 1,251	18,218 18,169 3,267 4,119	18,565 18,012 3,462 4,150 1,481	18,412 19,188 3,771 4,398 1,516	18,734 19,750 4,058 4,618 1,460	18,822 19,783 4,295 4,577 1,863	19,531 20,758 4,518 4,781 1,200
		Nun	Number of Births, etc. —Concluded	sirths, et	. — Con	cluded.					
			-	-			1				

							1887.	1888.	1880.	1890.	1891.	1892.	1893.	1894.	1895.	1896.
Totals,	•	•	•			•	58,174	54,898	57,075	57,777	63,004	65,824	67,192	986'99	67,545	72,343
Males,	•	•	•	•	•	•	27,245	28,156	29,017	29,521	82,532	83,758	34,328	34,338	84,628	37,186
Females, .	•	•	•	•	•	•	25,915	26,726	28,042	28,227	30,434	31,951	32,829	32,575	32,905	35,114
Unknown, .	•	•	•	•	•	•	14	11	16	%	88	115	8	83	17	43
	PAI	PARENTAGE.	AGE.													
Native, .	•	•	•	•	•	•	20,207	20,078	20,260	20,023	21,325	21,800	21,788	21.718	21,851	22,810
Foreign,	•	•	•	•	•	•	22,781	22,990	24,760	25,361	28,097	29,892	81,448	81,008	81,628	84,287
Native fathe	ır and	fore	ign n	other		•	4,853	5,771	5,918	6,160	6,685	6,919	7,003	7,107	7,026	7,792
Foreign fath	ner an	d nat	ive n	other		•	5,025	5,784	5,850	5,961	6,545	6,767	999.9	6,833	6,821	7,241
Not stated,	•	•	•	•	•	•	808	270	292	272	352	448	287	270	219	263

In table 12 are given the statistics as to the number of births for twenty years 1877–1896 with the parentage, and from this table it appears that the number born of mixed parentage in 1896 was 15,033, which was greater by 1,186 than the number of the same class born in 1895 and was greater than that of any other year.

Plural Births. — In 1896, 1,468 children were born of 729 mothers. Of this number, 1,438 were twins and 30 were triplets. The number of offspring of plural births in 1896 was greater than that of any of the previous twenty years except 1895.

		YEA	RS.			Cases of Twins.	Cases of Triplets.	No. of Living Births to one Case of Twins.	No. of Living Births to one Case of Triplets.
1877,						398	5	105	8,370
1878,						397	7	104	5,891
1879,						353	1	114	40,295
1880,						381	3 9	116	14,789
1881,						389	9	116	5,024
1882.						417	5	109	9,134
1883,						394	5	120	9,457
1884,				:		432	5	118	9,723
1885.						376	4 5	130	12,197
1886.						453	5	112	10,158
1887.						451	6	118	8,849
1888.						434	6 2 3	125	27,446
1889.						547	3	104	19.025
1890.						502	4	115	14,444
1891,						618	4 7	102	9,000
1892.						572	8	115	8,228
1893,						610	8 9	110	7,466
1894,	•					646	8	103	8,367
1895.						736	9	92	7,505
1896,	•	•	•	•	•	719	10	100	7,234
T	otals,					9,825	115	2,221	242,552
A	verag	е,				491.25	5.75	111-05	12,127 · 60

Table 13. — Plural Births. — Twenty Years.

In table 13 are presented data in regard to plural births for twenty years 1877–1896 showing the number of cases of twins and of triplets with the ratio of living births to one case of twins and also the number of living births to one case of triplets.

The tables relating to illegitimate births are omitted for reasons set forth in the report for 1895.

MARRIAGES.

The number of marriages registered in Massachusetts in 1896 was 23,651, which was 549 more than the number registered in 1895, and 3,032 more than that of 1894, and was also greater than that of any previous year. The number of persons married for each thousand of the living population as estimated was 18.51 and the number of marriages to each thousand was 9.26.

There was one person married to every 54.0 of the population, as compared with one in each 52.8 in 1895 and 59.3 in 1894.

TABLE 14	Marriage-rates,	<i>— 1851–1896</i> ((46	years)	١.
----------	-----------------	----------------------	-----	--------	----

Marriages.	Persons Married to 1,000 Living.	Number Living to One Marriage.	YEARS.	Marriages.	Persons Married to 1,000 Living.	Number Living to One Marriage.
11,578	23·42 22·06	85 91	1874, . 1875, .	15,564 13,663	19·30 16·54	108 121
13,683	24·76 21·77	81 92	1870, . 1877, . 1878, .	12,749 12,758 12,893	14·96 14·90	132 134 134
11,739	21·30 20·04	94 100	1879, . 1880, .	18,802 15,538	15·70 17·42	127 114 109
11,475 12,404	18·94 20·15	106 99	1882, . 1883, .	17,684 18,194	19·12 19·36	104 103
11,014	17.68	113	1884, . 1885, . 1886	17,052	18·12 17·56 18·00	110 114 111
12,513 13,051	19·86 20·60	101 97	1887, . 1888, .	19,533 19,789	18·90 18·62	105 107
14,451	22·10 21·52 20·06	93	1890, .	20,838	18.62	107 107 106
14,826 14,721	20·89 20·20	96 99	1892, 1893,	22,507 22,814	19·24 19·07	104 105
10140	21·04 21·02 20·88	96 95	1894, . 1895, . 1896, .	20,619 28,102 28,651	16.86 18.48 18.51	118 108 108
	11,966 11,578 12,928 13,683 12,329 12,265 11,789 10,527 11,475 12,404 10,972 11,014 10,873 12,513 13,051 14,428 14,451 13,856 14,826 14,721 15,746 16,142	Marriages. Married to 1,000 Living. 11,966 23.42 11,578 22.06 12,828 23.82 13,683 24.76 12,329 21.77 12,265 21.30 11,789 20.04 10,527 17.66 11,475 18.94 12,404 20.15 10,972 17.72 11,014 17.68 10,873 17.36 12,513 19.86 13,051 20.60 14,428 22.10 14,451 21.52 13,856 20.66 14,826 20.89 14,721 20.20 15,746 21.04 16,142 21.02	Marriages. Married to One 1,000 Living. Marriage. 11,966 23.42 85 11,578 22.06 91 12,928 23.82 84 13,683 24.76 81 12,329 21.77 92 12,265 21.30 94 11,739 20.04 100 10,527 17.66 113 11,475 18.94 106 12,404 20.15 99 10,972 17.72 113 11,014 17.68 113 10,873 17.36 115 12,513 19.86 101 13,051 20.60 97 14,428 22.10 90 14,451 21.52 93 13,856 20.06 99 14,826 20.89 96 14,721 20.20 99 15,746 21.04 95 16,142 21.02	Marriages. Marriage Living. One Marriage	Marriages. Marriages. Marriages. Marriages. Marriages. Marriages. Marriages.	Marriages. Marriages Mar

In table 14 are presented the number of marriages, persons married in each thousand of the population, and the number

living to one marriage for the period of forty-six years, 1851–1896. The editor admits that publishing rates for years where the number of the population is estimated is somewhat inconsistent with what has been before stated, but inasmuch as the estimate is based on what is actually known of the population in census years the possible error is at its minimum in this case.

The marriage rate for 1896 as calculated from the estimated number of the population was .09 less than the average rate for the decade 1887–1896 but was 1.38 greater than the average rate of the census years for the past forty-five years.

Table 15 presents the number of marriages in each county for each year in the period of ten years (1887–1896), together with the marriage rates (number of marriages to each 1,000 living) for the census years 1880, 1885, 1890 and 1895.

... by Counties, 1887-1896, and Marriages to 1,000 Living, 1880, 1885, 1890, 1895.

1	1	Karrag	Marriage" 3												
TABLE 19.				1											
		1887.	1868.	1880.	1896.	1801.	1892.	1893.	1864.	1895.	1896.	1886.	1885.	1890.	1805.
THE STATE,		19,533	19,739	20,397	20,838	21,675	22,507	22,814	20,619	23,102	23,651	8.71	8.78	9.31	9.24
Barnstable,		283	257	251	245	245	221	209	214	202	192	7.02	9.34	8.39	7.49
Berkshire, .	•	635	594	269	613	605	625	618	292	642	628	7.20	7.30	99.2	7.44
Bristol,	•	1,644	1,656	1,678	1,885	1,850	2,045	2,089	1,825	2,185	2,877	8.35	9.12	10.11	9.98
Dukes, .		40	28	35	83	83	88	88	22	88	41	8.83	11.85	9.27	8.97
Essex,	•	2,584	2,649	2,763	2,778	2,905	2,899	8,108	2,691	8,025	2,911	9.68	9.21	9.24	9.16
Franklin, .		280	290	819	285	810	331	335	284	878	303	8.50	7.53	7.38	6.92
Hampden, .		1,147	1,210	1,203	1,198	1,388	1,479	1,401	1,270	1,436	1,503	9.29	9.24	8.82	9.39
Hampshire,		968	368	430	421	448	438	410		457	449	8.11	7.38	8.13	8.35
Middlesex,.		3,567	3,533	8,754	3,836	4,083	4,259	4,373	3,721	4,289	4,157	8.38	8.55	8.90	8.59
Nantucket, .		53		49	18	16	58	21	16	25	15	7.25	5.72	5.50	8.29
Norfolk,	•	957		986	987	944	926	926	830	806	952	7.28	₹6.9	2.88	6.73
Plymouth, .		752	692	729	803	862	804	840	717	742	790	68.2	7.98	99.8	7.31
Suffolk, .		4,884	5,058	5,229	5,297	5,574	2,708	5,745	5,809	6,324	6,655	9.63	10.18	10.92	11.72
Worcester, .		2,335	2,472	2,429	2,488	2,476	2,676	2,655	2,239	2,546	2,678	8.33	7.65	8.85	8.31
	1		-												

TABLE 16. — Marriages and Marriage-rates by Months and Quarters, 1895-1896.

MONTHS.	Marri registere Moi	iages d in each nth.	Marri registered Quar	in each	Mont Percent Marris	#ge of	Quart Percent Marris	age of
	1895.	1896.	1895.	1896.	1895.	1896.	1895.	1896.
January, . February, . March,	1,715 1,709 860	1,830 1,693 911	} 4,284	4,434	7·43 7·40 8·72	7·74 7·16 3·85	218.55	18·75
April, May, June,	1,851 1,459 2,877	2,271 1,459 3,126	} 6,187	6,856	8·01 6·32 12·45	9·60 6·17 13·22	\$26.78	28 • 99
July, August, September, .	1,650 1,581 2,292	1,669 1,686 2,206	5,523	5,561	7·14 6·84 9·92	7·06 7·13 9·83	23.90	23 · 52
October, . November, . December, .	2,770 2,748 1,590	2,510 2.654 1,636	} 7,108	6,800	11·99 11·90 6·88	10·61 11·22 6·91	\$30.77	28.74
The four a quarters, a	28,102	23,651	23,102	23,651	100.00	100.00	100-00	100 • 00

Table 17. — Marriages given Quarterly for Ten Years.

			1sr Q	JARTER.	SD Q∪	ARTER.	8 D Q0	ARTER.	4TH Q	JARTER.
YEA	RS.		Nos.	Percent- ages.	Nos.	Percent- ages.	Nos.	Percent- ages.	Nos.	Percent- ages.
1887, .			3,898	19.96	4,982	25.51	4,388	22.46	6,265	32.07
1888, . 1889, .	•	:	3,740 4.127	18·95 20·23	5,296 5,148	26·83 25·24	4,631 4,847	23.46	6,072 6,275	30.76
1890, .	:	:	3,852	18.48	5,746	27.58	4,984	23.92	6,256	30.02
1891, .	•	•	4,154	19.17	5,762	26.58	5,107	23.56	6,652	30.69
1892,* . 1893,† .	•	•	4,389 4,591	19·50 20·13	6,138 6,862	27·28 30·10	5,269 5,201	23·42 22·81	6,706 6,146	29.80
1894, .	:	:	3,775	18.31	5.705	27.67	4.842	23.48	6.297	30.54
1895, .			4,284	18.55	6,187	26.78	5,523	23.90	7,108	
1896, .	•	•	4,434	18.75	6,956	28.99	5,561	23.52	6,800	28.74
Aver	age,		4,124	19.20	5,848	27 · 25	5,035	23.43	6,458	30 · 11

Five marriages are excluded as the dates are unknown.

[†] Fourteen marriages are excluded as the dates are unknown.

TABLE 18. — Ages at Marriage of 23,650 Men and of 23,649 • Women in 1896.

		•						and a man and a color to a far a man an and a			<u>^</u>	, (
				Under 80.	_ *25 ot 05	.es ot 52	.88 W 88.	.02 of 40.	-65 to 45.	45 to 50.	.23 or 65.	22 to 60.	.59 ot 65.	.e5 to 7e.	-9£ 04 0£	.06 of 57	.08 TaYO	Unknown.
Men, . Women, .	• •	• •	• •	417 8,572	8,176 10,477	7,902	8,299 1,935	1,670	812	567 259	824 128	190	118 39	177	52	13	တ ၊	-64
				¥	Ages at Marriage of 20,538 Bachelors and of 21,415 Maids.	Karria	re of 2	20,538	Bache	lors an	d of 2	1,415	Maids					
Bachelors, . Maids, .	• •	• •		417 3,585	8,116 10,296	7,559 5,159	2,770 1,473	1,081	368 192	148 85	29	19	4 60	21	1	00 I	1 1	1 69
				7	Ages at Marriage of 3,113 Widowers and of 2,236 Widows.	Marria	ge of	3,113	Widow	ers an	1 of 2,	336 и	Vidows.					
Widowers, . Widows, .	• •	• •	• •	<u></u>	60 181	848 437	462	589 460	474	424	267	171	114 36	75	52	11	တ ၊	- 1
E	The app	proxii	m sate	BVerage	proximate average age of 23,650 men married in 1896 was . " of 23,649 women married in 1896 was . " of 20,538 men marrying for the first . " of 21,413 women marrying for the first .	[23,656 [23,649 [20,588	wome the men is men is wome	of 23,650 men married in 1896 was of 23,649 women married in 1896 was of 20,538 men marrying for the first time in 1896 was of 21,413 women marrying for the first time in 1896 was	in 1894 ied in 1 g for tl ying fo	6 was . (896 wa he first r the fi	s . time in	1896 v s in 189	 vas .			29·05 25·55 27·05 24·39	05 55 05 39	

This does not include the cases where the age at marriage was unknown.

In table 18 is presented a summary of the number of persons married at different ages. These are classified by sexes, and by their conjugal condition before marriage. The approximate average age of each class is also given.

The number of men married in 1896 under twenty years of age was 1.8 per cent, of the whole number of men married whose ages were known, which was ·1 of one per cent. greater than the percentage of the same class in 1895; and the number of women married who were under twenty years of age was 15.2 per cent. of the whole number married whose ages were known as compared with 15.1 per cent, in 1895 and 15.5 per cent. in 1894. The number of men who were married between the ages of twenty and twenty-five was 34.6 per cent. of the whole number, and the number of women married at the same age was 44.3 per cent. as compared with 35.7 per cent. for the men and 43.7 per cent. for the women in 1895. The men who married between twenty-five and thirty were 33.4 per cent. of the whole number and the women were 23.6 per cent. of the whole number as compared with 33.2 for men and 24.2 for women in 1895. Seven hundred and seventy-seven men and 281 women married after having attained the age of fifty years: 16 men and one woman were over seventy-five years of age at time of marriage and 3 men were over eighty.

Table 19. — Average Ages at Marriage, 1877-1896.

	YEAR	8.		Average Age of all Bridegrooms.	Average Age of all Brides.	Average Age of Men Marrying for the First Time.	Average Age of Women Marrying for the First Time
1877,				28 · 2	25 · 2	26.4	23.8
1878,		•		28·2	25.0	26.5	23.8
1879,				28 · 2	25.2	26.7	23.9
1880,				28 · 9	25.1	26.5	23.8
1881.				23.8	25.1	26.5	23.9
1882,				29 · 2	25.4	26.5	23.9
1883,				28 · 8	25.3	26.6	23.4
1884,				29 · 1	25 · 1	26.6	24 · 1
1885.				29 • 2	25.3	26.8	24 · 2
1886,		•		28·9	25.3	26.9	24.2
1887,	•		• 1	29.0	25.5	26.8	24 · 4
1888.			.	28 · 9	25.5	26.8	24 · 4
1889.			.!	29 · 1	25.8	26.9	24.5
1890,				28.8	25.5	27.2	24.3
1891,			.	28.6	25 · 4	26.8	$24 \cdot 2$
1892,				28 · 8	25.4	26.7	24.3
1893.		•		28.8	25.5	26.9	24 · 4
1894,				29.1	25.0	26.9	23.7
1895.				28.9	23 · 2	26.7	24 · 4
1896.			. 1	29 · 1	25.6	27 • 1	24 · 4

In table 19 are presented the average ages at marriage of all persons of both sexes for a period of twenty years, and of persons married for the first time for the same period. The average age of each of these classes was higher by a small fraction of a year than those of the same classes in the previous year, except for the class of women marrying for the first time, which was the same as the average for the previous year of the period. In 1887, 1888, 1893 it was the same, 24.4.

TABLE 20. - Persons Married who were less than Twenty Years Old.

									Nu	DERS.
				GES.					Males.	Females
l3 <u>y</u>	rears,				•				_	_
14 15	44				•			.	-	4
15	44							. 1	_	27
16	4								1	155
7	4								17	486
8	66							.1	89	1.320
19	66	•	•	•	•	•	•		310	1,320 1,600
	Totals,							. -	417	3,592

Table 20 presents the number of persons married in 1896 who were under twenty years of age. The total number of males was 417, and of females 3,592. Four females were fourteen years of age at time of marriage, 27 were fifteen years of age and 155 were sixteen years of age. One male was 16 years of age, and there were none under that age.

TABLE 21. — Conjugal Condition of Persons Married, 1896.

					FEMA	LES.		
MALES.		Whole No. of Marriages.	First Marriage.	Second Mar- riage.	Third Mar- riage.	Fourth Mar- riage.	Fifth Mar- riage.	Un- known.
Whole number,		23,651	21,415	2,138	95	8	_	_
First marriage,		20,538	19,368	1,142	28	_	-	_
Second marriage,		2,873	1,984	891	46	2	_	_
Third marriage,	٠	217	105	96	15	1	_	_
Fourth marriage,		21	6	9	6	_	_	-
Fifth marriage,		2	2		_	_	_	-
Sixth marriage,			-	-	-		_	_
Unknown, .		-	-	-	_	_	_	–

In table 21 is given a statement of the number of persons who were married in 1896, with reference to their conjugal condition; the essential data of this table have already been commented on, and repetition is deemed unnecessary.

Table 22. — Marriages according to Nativity. — Percentages for Twenty Years.

	YEARS.			Both Parties Native Born.	Both Parties Foreign Born.	Native Born Groom and Foreign-born Bride.	Foreign-born Groom and Native-born Bride.	Not stated.
1877,		•	•	60.00	22.76	8.00	9.11	-13
1878,				61.38	21.52	8.34	8.64	·12
1879,				62 · 19	20.23	8 · 29	9 · 23	-06
1830,				60 • 15	21.77	8-97	9.09	-02
1881,		•		58 · 12	23.86	9.97	8.52	-03
1882,				55.74	25.56	9.86	8.81	-03
1883,				54.98	26 · 13	9.99	8.85	-05
1884,				52.89	27 · 37	10.84	8.88	•02
1885,				53.21	26.55	11.04	9 · 17	-03
1886,	•			51-46	27.90	11-18	9.43	.02
1887,	•			49.85	29.02	11.55	9.56	-02
1888,	•			48.03	30.61	11.64	9.67	•04
1889,	•			46.94	31 · 47	12.11	9 · 47	-01
1890,	•			46-11	31.50	11.97	10.35	∙01
1891,	•			45.87	32.37	11.58	10.15	.04
1892,	•			44.57	33.98	11.37	10.08	.00
1893,	•			43.96	34 • 49	11.55	9.97	.03
1894,	•			44-44	33-64	11.68	10.24	-
1895,	•			44.55	33 • 29	11.79	10.36	-01
1896,		•		43.97	33.48	11.97	10.55	•03

In table 22 are presented the percentages for a period of twenty years, 1877-1896 of marriages with reference to the nativity of groom and bride. By this table it appears that there has been an increase in the percentage of the native born from 1877 to 1881, and from thence on a general decrease up to 1896. The percentages of the foreign born, with a few exceptions varied inversely with the former. In the class of marriages of persons of mixed parentage there has been an increase with considerable uniformity in the whole period.

Table 23. — Marriages per 1,000 of Population.

						Ave	AGE.	
					1871-99.	1891.	1892.	1898.
Massachusetts	, .				18.12	18-9	19.2	19.0
Hungary (15 y	ears)	, .			19-1	17 · 2	18.4	18•6
Prussia, .			•		16.7	16.3	16.1	16-1
German Empi	ге, .				16.4	16.1	15.9	15.8
Austria, .					16.3	15.4	15.6	_
England and \	Vales,	, .			15.6	15.6	15-4	14.7
Italy,	•				15.6	15.0	15.0	14.7
France, .					15.4	15.0	15.2	_
Denmark, .					15.2	13.6	13.6	14.1
Holland, .	•				15.1	14.2	14 • 4	14.6
Switzerland,					14.7	14.4	14.8	14.7
United Kingdo	m,				14.4	14.6	14.5	13.9
Belgium, .					14.2	14.8	15.4	15.2
Scotland, .					13.9	13.9	14-1	13.2
Norway, .					13.7	13.2	12.7	12.8
Sweden, .					13.1	11.7	11.4	_
Ireland, .					9.0	9.2	9.3	9.4

In table 23 are presented the marriage rates of various foreign countries and of Massachusetts for the years 1891-2-3, together with the average for the twenty years 1871-1890. For this table the editor is indebted to the work before mentioned of Prof. Mayo-Smith of Columbia College.

DIVORCES.

The causes for which divorce from the bonds of matrimony may be granted in Massachusetts as set forth in the Public Statutes are as follows:—

- 1. Adultery.
- 2. Impotency.
- 3. Sentence to imprisonment at hard labor for five years or more.
- 4. Desertion for three consecutive years next prior to the filing of the libel.
- 5. Separation without consent, and union for three years with a religious sect or society holding the relation of husband and wife unlawful.
 - 6. Extreme cruelty.
 - 7. Gross and confirmed habits of intoxication.
 - 8. Cruel and abusive treatment.
 - 9. Neglect to provide.
 - 10. Gross and confirmed drunkenness from opium or other drugs.

A marriage may be declared void in consequence of violation of the provisions of the laws concerning marriage.

For at least a quarter of a century no divorces have been granted on the ground of union with a religious sect holding the relation of husband and wife unlawful.

The causes for which divorces were granted in Massachusetts in 1896 were as follows,

- 1. Adultery.
- 2. Cruel and abusive treatment.
- 3. Desertion.
- 4. Extreme cruelty.

- 5. Imprisonment.
- 6. Intoxication.
- 7. Non-support.
- 8. Nullity of marriage.

It appears that in the year 1896 the whole number of divorces granted was 1,230, which is 276 more than the whole number granted in the year 1895, and 123 more than the number granted in 1894; and it further appears by reference to former reports that the total number of divorces granted in 1896 is larger by 507 than the average number granted in the twenty year period 1877–1896.

Causes. — Of the whole number of divorces granted in 1896 254, or 20.7 per cent., were granted on the ground of adultery, as compared with 19.2 per cent. in 1895, 19.9 per cent. in 1894, while for the twenty year period 1877–1896 the average percentage was 21.8.

The percentage of divorces granted on the ground of desertion (total 583) was, in 1896 47.39. In 1895 the percentage was 49.56 in 1894 46.1 while it was for the twenty year period, 47.4.

Refusal to cohabit is mentioned in the statute as a cause for divorce, but it must be accompanied with alliance with a religious sect holding the relation of husband and wife unlawful. There is but one case of libel brought on this ground (refusal to cohabit), and here it was claimed on the ground that such refusal was cruelty, but the court held that it was not the kind of cruelty on which a divorce could be granted. There is no reported case of libel brought on the ground of alliance with a religious sect holding the marital relation unlawful.

On pages 140-141 may be found the statistics relating to divorces in Massachusetts for the period of twenty years ending with 1896. The number for each county is specified for each year of the period, the sexes in favor of which they were granted, and the causes for which they were granted.

During the entire period embraced in the tables (years 1877–1896) 14,469 divorces were granted, which was 705 more than were granted in the twenty years ending with 1895.

Sex. — Of the whole number, 10,066, or 69.56 per cent., were granted on complaint of the wife.

Of the divorces granted on account of adultery, 1,596, or 50.5 per cent. were decreed to the wife; of those on account of desertion 62.6 per cent.; of those on account of intoxication 87.4 per cent.; of those on account of extreme cruelty 98.4 per cent.; of those on account of cruel and abusive treatment 97.6 per cent.; and of those on account of non-support 100 per cent.

Causes. — Of the whole number of divorces granted in the period of twenty years ending with 1896, 3,158, or 21.8 per cent., were granted on account of adultery; 6,871, or 47.4 per cent., on account of desertion; 1,899, or 13.1 per cent.,

on account of intoxication; 688, or 4.7 per cent., on account of extreme cruelty; 1,393, or 9.6 per cent., on account of cruel and abusive treatment; and 318, or 2.2 per cent., on account of non-support.

Counties — The percentages of divorce granted on account of adultery as compared with the total number decreed in each county, was as follows for the twenty years ending with 1896, beginning with the county having the highest percentages.

Franklin,			25.0	Norfolk, .				18.6
Suffolk, .			23.4	Plymouth,				18.1
Middlesex,			22.6	Hampden,				18.0
Worcester,			21.4	Hampshire,				16.3
Barnstable,			21.2	Bristol, .				16.2
Essex, .		•	20.9	Dukes and N	antu	icket,		6.6
Berkshire,			20.6					

For desertion the percentages were as follows: -

Barnstable,				55.7	Berkshire,			47 · 7
Hampshire,				$52 \cdot 8$	Worcester,			46.7
Plymouth,				52.6	Franklin,			46.2
					Suffolk, .			
Essex, .				51.7	Hampden,			44.5
Dukes and N	antı	ucket,		50.8	Bristol, .			42-4
Middlesex,		•		48.1				

For intoxication the percentages were as follows: -

Hampden,				18.8	Hampshire,			11.1
Worcester,				14.6	Essex, .			10.9
Suffolk, .				14.1	Plymouth,			10.8
Bristol, .				14.1	Berkshire,			10.6
Norfolk, .								
Middlesex,								
Dukes and Na	antu	cket,		11.5	•			

For extreme cruelty the percentages were as follows: —

Dukes and N	lanti	nekat		9.8	Franklin				3.8
		•							
Barnstable,				8.3	Suffolk, .	•	•		3.6
Middlesex,				7.6	Worcester,				3.4
Berkshire,				7.4	Hampshire,				$9 \cdot 4$
Hampden,				5.4	Norfolk, .				2.8
					Plymouth,				
Essex				4.6	1				

In table 25 are presented the ratios of divorces to marriages in each year, for the period of twenty years ending with 1896. The ratio for the entire period was one to 25.9. The highest ratio was in 1894, one to 18.6, and the lowest one to 40.9 in 1881.

For the year 1896, it was one to 19.2, which was the lowest ratio of any year in the whole period except 1894.

The average marriage rate for the twenty years (1877–1896) was 17.99 per 1,000 of the population. For the ten years 1877–1886 it was 17.36 and for the following decade 1887–1896 it was 18.61 an increase of 1.25 per 1,000 of the population.

Comparing the same periods with reference to the ratio of divorces to marriages, it appears that there was from one to 27.99 in the former period to one in 24.67 in the latter.

Table 24. — Ratio of Divorces to Marriages. — Twenty Years.

3	EARS	•		Number of Mar- riages.	Marriage-rates per 1,000.	Number of Divorces.	Ratio of Divorces to Marriages.
1877, .				12,758	*14.96	553	1 to 23·1
1878, .				12,893	*14.90	600	1 to 21.4
1879, .		•		13,802	*15.70	546	1 to 23·4
1880				15,538	17 · 42	576	1 to 26.9
1881				16,768	*18 · 48	409	1 to 40.9
1882				17,684	*19.12	515	1 to 34 · 3
1883				18,194	*19.36	655	1 to 27.8
1884.				17,333	*18 · 12	614	1 to 28 · 2
1885.	-			17,052	17 · 56	646	1 to 26 · 4
1886		•		18,018	*18.00	600	1 to 30.0
1887	•	•		19,588	*18.96	796	1 to 24.5
1888.	•	·		19,739	*18.62	624	1 to 30.6
1889.	:	:	:	20,397	*18.72	756	1 to 26.9
1890.	•	•	:	20,838	18.62	654	1 to 31.9
1891, .	•	•	:	21,675	*19.01	799	1 to 27 · 1
1892, .	:	•	:	22,507	*19.24	790	1 to 28.5
1893.				22,814	*19.07	1,045	1 to 21.8
1894, .	•	•	•	20,619	*16.86	1,107	1 to 18.6
1895, .	•	•	•	23,102	18.48	954	1 to 24 · 2
1896	•	•	•	23,651	18.51	1,230	1 to 19·2
1030, .	•	•	•	20,001	10.01	1,230	1 (0 19.2
Totals an	d ave	erage	s, .	374,915	17.99	14,469	1 to 25.9

[·] Estimated.

Table 25.—Ratio of Total Number of Divorces to Total Number of Marriages, by Counties and Causes.—Twenty Years, 1877-1846.

		riages.	4	ADULTERT.	. ا	Ā	Desertion.		IN	Intoxication	OM.	Exm	Extreme CRUELIT	BLTT.	ALL O	ALL OTHER CAUSES.	91
COUNTIES.		riaM to reduced	Mumber of Divorces.	oltaX	of Divorces to Marriages.	Number of Divorces.	Matio of Divorces to	Marriages.	Number of Divorces.	othasi	of Divorces to Marriages.	Mumber of Divorces.	oliaM	of Divorces to Marriages.	Mumber of Divorces.	Ratio of Divorces to	.eogairtahi
Barnstable	•	4,798	46	1 50	104.3			9.6	12		399-1	18		265.9	0%		9.6
Berkshire.	•	11,876	109	1 to	104.4			15.2	99		203.3	33	1 to	290.5	72		0.89
Bristol.	•	32,632	287	1	113.7			9.90	163		213.3	29	1 to	552.1	157		8.70
Dukes and Nantucket,	•	1,207	4	1 to	301.7			8.9	7		172.4	9	150	201-1	13		9.3
Essex,	•	51,148	456	1 to	112.2	=		14.5	238		219.5	101	1 to	506.4	260		2-96
Franklin,	•	5,824	69	=	84.4			58-4	18		828-6	6	1 to	647.1	31		37.9
Hampden,	•	23,211	182	1	182.4	450	1 2	51.6	190	1 to	122.2	22	1 to	422.0	134	1 to 17	173.2
Hampshire,	•	7,928	88	1 to	208.7			94.9	56		6.706	∞	150	990-1	88		3.s
Middlesex,	•	608,79	472	l to	143.7	_		37.8	254		6.998	160	12	423.9	204		7.7
Norfolk,	•	16,291	29	1	506.5			2.8	25		8.962	12	1 to 1	857-6	22		90.53
Plymouth	•	13,965	112	1	124.7			8.03	67		208.4	27	150	517.2	97		6·8
Suffolk.	•	94,870	940	1 않	100.9	_		52.3	999		9-291	146	12	649.8	543		74.7
Worcester,	•	43,770	364	1 to	120.2			54.9	249		175.8	89	1 12	154.7	237	1 to 18	34.7
The State,	•	874,829	8,168	1 2	1 to 118·7	6,971	1 to 6	53.8	1,899	1 to	1 to 197.4	889	1 to	544.9	1,862	1 to 20	201.3
	•	_	_			_	_	=	_		=	_		=	_		

TABLE 26. — Divorces Granted, by Years and Statute Causes. — Twenty Years.

THE STATE.

	Both Bexes.	555 560 600 610 610 611 610 610 610 6	
Torale	Females.	418 438 450 586 461 433 433 433 433 433 433 434 433 434 433 434 434 436 556 556 556 556 556 556 556 566 866 86	irriage.
	Malos.	187 177 176 176 176 176 180 180 201 192 248 248 320 248 320 320 320 320 320 320 320 320 320 320	Three males, 4 females, nullity of marriage. Three males, 8 females, nullity of marriage. Two males, 8 females, nullity of marriage.
Č.	Both Sexes.	18 18 118 1 188-8 17 1	IIIty IIIty
IMPOTENCY	Females.	מווו והמומחווווווווווווווווווווווווווווו	
IKE	Males.	111811-1-1111-11-11-0	en e
,	Both Sexes.	878888814616618844416 7	2 to 8
IMPRISON- MENT.	Females.	のしまするとものももので 1 ものするするし 級	
4	Males.	111-111-1111111-11-4	9 2 8
7. TO	Both Bexes.	-121-2286-0-1825-288 88 88 88 88 88 88 88 88 88 88 88 88	F P
NEGLECT 1	Females.	25 25 25 25 25 25 25 25 25 25 25 25 25 2	₩₩
X	Males.]]
O M	Both Bezes.	781-884-888-888-888-888-888-888-888-888-8	tage.
CRUEL AND ABUSIVE TRKATMENT	Females.	722 22 22 22 22 22 22 22 22 22 22 22 22	f marr
o E	Males.	1 1 1 1 1 1 1 1 1 1	ity o
# ±	Both Sexes.	333333333335	ina,
EXTREME CBULLIT.	Pemales.	548 258828828828888888888888888888888888	male
<u> 65</u>	Males.	111111111111111111111111111111111111111	S fen
	Both Sexes.	25 25 25 25 25 25 25 25 25 25 25 25 25 2	Two males, 2 females, nullity of marriage. Three males, 3 females, nullity of marriage. Four males, 4 females, nullity of marriage.
INTOXICATION.	Females.	21 26 26 26 26 27 27 27 26 27 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	T Two
Ist	Males.	256 256 256 256 256 256 256 256 256 256	1
	Both Sexes.	214 2264 2264 197 2268 2218 2278 2278 237 237 236 236 247 2473 268 278 289 278 278 278 278 278 278 278 278 278 278	marriage. marriage. of marriage.
DESKRTION.	Females.	1144 1177 1178 1178 1188 1188 1188 1188	of marriage. of marriage.
Ē	Males.	70 87 87 78 78 78 110 1110 1100 1100 110	nullity of nullity of les, nullity
	Both Sexes.	146 1170 1170 1170 1170 1170 1170 1170 117	females, nullity of females, nullity of sepales, nullity of
ADULTRIT.	Females.	25 25 25 25 25 25 25 25 25 25 25 25 25 2	ale, 3 fe ale, 4 fe males,
. *	Malon.	252 252 253 253 253 253 253 253 253 253	One male, 9 One male, 4 Three male
	TEARS.	1877,	* ••

Table 27. — Divorces Granted, by Years and Statute Causes. — Twenty Years.

BARNSTABLE COUNTY.

	Both Sexes.	16 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	217
TOTALS.	Females.	4728777861108777887	142
	Males.	→公本の3:2503888846439 5	76
۵.,	Both Sexes.	111111111111	9
NEGLECT TO PROVIDE.	Females.	11111111111	۵
N.	Males.	1111111111111111111111	ı
ND MT.	Both Sexes.	111111111111111111111111111111111111111	15
CRURL AND ABUSIVE TREATMENT.	Females.		18
T, C	Males.	11111111111111111111111	'
OBLTT.	Both Sexes.	1011100001000101111111	8 2 ·
Extreme Cruelity.	Females.	1911-9891999-19111-1	18
ExTR	Males.		'
IOM.	Both Sexes.		12
Intoxication	Females.		12
INI	Males.		1
<u> </u>	Both Sexes.	800004r00004T44r0000	121
Вези тов.	Females.	∞ 0 0 0 4 4 5 0 0 4 − 0 5 − 1 0 1 0 0 4 − 1	7.5
Q.	Males.		48
٠	Both Sexes.	22200411244120412141	9
ADULTERY.	Females.	888 88 188 888 18 1	ន
4	Males.	11-6011000-000114-	88
			•
	2	• • • • • • • • • • • • • • • • • • • •	•
	YEAR8.		Totals,
		1877, 1878, 1878, 1881, 1883, 1883, 1884, 1886, 1886, 1889, 1889, 1890, 1890, 1891, 1891, 1891, 1892, 1892, 1893,	. '

TABLE 28. - Divorces Granted, by Years and Statute Causes. - Iventy Years.

BERKSHIRE COUNTY.

	Both Bexes.	23888886886886888668	628
TOTALS.	Females.	22.128.23.23.23.23.23.23.23.23.23.23.23.23.23.	381
	Males.		147
j	Both Bezes.	1111111111111111111111111111	63
Imporna	Females.		64
Ik.	Males.	111111111111111111111	1
ا يا	Both Bexes.	111-011-111111111111	4
IMPRIBON- MENT.	Females.	11110111-11111111111	₆₀
27	Malos.	*******************	-
٤.	Roth Sexes.		=
LECT	Females.		Ξ
MEGLECT TO PROVIDE.	Males.	11111111111111111111	1
	Both Sexes.	1841 811841844814万	28
CRUEL AND ABUSIVE TREATMENT	Females.	1841 18118818447147	8
Tak	Males.	111111111111	67
	Both Sexes.	411400414 1110100100100	<u> </u>
EXTREME CRUKLTY.	Females.	44004-01	l s
M5	Males.	111111111111111111111111111111111111111	8
IOM.	Both Sexes.	₽→ 1→→⊗≈⊘⊘⊗≈⊗⊘₽⊘◆⊗◆ ◆	188
[HTOXICATION,	Females.	₽ □ 1 1□88888888884844	22
INTO	Malos.	11101111101111111111	- 64
ž	Both Sexes.	00 11 10 12 12 13 13 15 15 15 15 15 15 15 15 15 15 15 15 15	252
DESERTION	Pemales.	80 00 00 00 00 00 00 00 00 00 00 00 00 0	160
Δ×	Males.	118888884748189748718	83
E	Both Sexes.	&	<u>8</u>
ULTERT.	Pemales.	81888478818414488183	29
ΦΦ	Males.	∞ → ∞ ∞ ∞ ∞ → ∞ ∞ ∞ →	47
'		• • • • • • • • • • • • • • • • • • • •	'
	Tears.		Totals,
		1877 1870 1880 1881 1882 1884 1884 1889 1890 1891 1893 1893 1893 1893 1893 1893 1893	

Table 29. — Divorces Granted, by Years and Statute Causes. — Twenty Years.

BRISTOL COUNTY.

	_	a dedica	
	Both Sexes.	7 444288854588885458	1,156
TOTALS.	Females.	322442328244823247255 524443283342347255	782
	Males.	1221222331222233123123123133133133133133	374
ı.	Both Sexes.	(ellitiettettettitt	+
Іжеоткист	Females.	lettittettettettitt	4
1 1 1 1 1	Males.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
<u> </u>	Both Sexes.		6
IMPRISON- MENT.	Females.	11111000011111110001	۵
A	Males.	1111111111111111111111	<u>'</u>
2	Both Sexes.	101 14-00 11-00-1-00 1-4-4	83
NEGLECT TO PROVIDE.	Females.	10114-011-01-1001-04-4	88
ž	Males.		'
9 1	Both Sexes.	⊕ • • • • • • • • • • • • • • • • • • •	116
CRURL AND ABUSIVE TREATMENT.	Females.	© 7 2 4 2 8 8 8 8 8 8 9 8 9 8 9 8 9 8 9 8 9 8 9	113
5 E	Males.	11111111111111111111	67
# E	Both Sexes.	て5000でまる女 女 50 5 1 7 4 1 2 3 1	28
EXTREME CRUELTY.	Females.	て50001454141051641001	8
MO	Males.		1
.TON.	Both Sexes.	64************************************	163
INTOXICATION	Females.	2482118012888888 10011881	184
5	Malos.	11141441441444	88
×	Both Sexes.	225282828282828282828282828282828282828	490
Везкат том	Females.	88 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	300
ă	Males.	11 55 56 56 56 57 57 57 57 57 57 57 57 57 57 57 57 57	180
ا ن	Both Sexes.	84128212824148118128208	287
ULTERY.	Females.	2 0-2 − − − − − − − − − − − − − − − − − − −	137
АВО	Males.	8717001108408406755	150
			•
	YEAES.		Totals,
		1877, 1878, 1878, 1879, 1882, 1882, 1884, 1886, 1889, 1890, 1891, 1892, 1892, 1892, 1892, 1892, 1894, 1894, 1896,	H

[.] One female, nullity of marriage. † One male, nullity of marriage.

§ One male, one female, nullity of marriage.

marriage. † One male, null

[‡] One male, nullity of marriage.

Table 80. — Divorces Granted, by Years and Statute Causes. — Twenty Years.

DUKES AND NANTUCKET COUNTIES.

	Both Sexes.	本立ち1663 62832241488	19
TOTALS.	Females.	1899 148 1698 1643	41
T	Males.	14 14 1400 1 1 1 1044444	ଛ
OVIDE.	Both Sexes.		2
Neglect to Provide.	Females.	THE THE THE TENTE TO THE TENTE	8
NEGLEC	Males.	11111111111111111111	<u>'</u>
BUSIVE T.	Both Sexes.	- - - - - -	=
CRUEL AND ABUSIVE TREATMENT.	Females.	14 14 1 14 14 14 14 14	2
CRUEL	Males.	111111111111	<u> </u>
ELTY.	Both Sexes.	iellieellellellitte	9
EXTREME CRUELIY.	Females.	lettieettettettie	8
Extra	Malos.	1111111111111111111	'_
OK.	Both Bexes.	181118181111111111111111111111111111111	7
INTOXICATION.	Females.	[#][[#][]]]]]]	9
THT.	Males.	111111161111111111111	1
ی	Both Sexes.	1 148 1884 14488484444	31
Вкавитіом.	Females.		17
Q	Males.	:	14
i.	Both Sexes.	(a)a)(aa)(1)(1)(1)(1)(1)	4
ADULTERT.	Females.		'
•	Males.	1414) 144 III II II II II II II II II II II II	4
	YEARS.	1877, 1877, 1877, 1877, 1877, 1877, 1877, 1880, 1882, 1882, 1882, 1882, 1882, 1880,	Totals,

TABLE 81. - Divorces Granted, by Years and Statute Causes. - Iwenty Years.

ESSEX COUNTY.

	Both Sexes.	92 98 98 98 98 98 113 113 113 113 113 113 113 113 113 11	2,182
TOTALS.	Females.	82821488428824486288	1,536
	Males.	84828482828384482	948
<u>.</u>	Both Sexes.		1
IMPOTENCE	Females.	1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>
THE P	Males.	1111111111111111111	1
ا ي	Both Sexes.	IIIII e le l le l l l leee le	1
IMPEISON- MRNT.	Females.	TITLE III I I I I I I I I I I I I I I I I I	4
3	Males.	TITTITE TITTITE CE	80
٤.	Both Sexes.	228-12-12-21-11-1	8
PROVIDE.	Females.	888-18-18-818-1114-8	ន
NEG	Males.	1111111111111111111	'
e i	Both Sexes.	2777999494949818818	777
CRURL AND ABUSIVE TREATMENT	Females.	2777999494649598988	222
8 4 ₽	Males.	111111111111111111111111111111111111111	2
M Ni	Both Sexes.	8133384388-44668636	15
EXTREME CRUELTY.	Females.	5	8
85 1	Males.	1111111111111111111	-
ION.	Both Sexes.	22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	238
INTOXICATION	Females.	100 88 88 88 80 112 113 113 113 113 113 113 113 113 113	8
INTO	Males.	111110	8
Ж.	Both Sexes.	142242348442428582828	1,127
DESERTION.	Females.	282822412507415888888888888888888888888888888888888	738
DE	Males.	991106 80000000000000000000000000000000000	88
j.	Both Sexes.	491881888818888898898898898898	456
ADULTER	Females.	88 100 100 100 100 100 100 100 100 100 1	234
AD	Males.	8 1 1 1 2 2 2 1 1 6 1 1	727
!			•
	YEARS	1877,	Totals,

Table 32. — Divorces Granted, by Years and Statute Causes. — Iwenty Years.

FRANKLIN COUNTY.

	Both Bexes.	**************************************	88	
TOTALS.	Females.		160	
-	Males.		76	Je.
ţ	Both Sexes.	lettilittilitettlett	8	, 1 fems
IMPRIBONKENT.	Females.	latitititititiaitiait	8	provide
Ior	Malos.	11111111111111111111	-	‡ Neglect to provide, 1 female.
T.	Both Sexes.	11110000100010001000	22	₩ #
CRUEL AND ARDSIVE TREATMENT.	Females.	1111000100010001000100	82	
CRUME	Males.	1111111111111111111	1	
BLTT.	Both Sexes.		۵	male.
Extreme Croeder	Females.		۵	Neglect to provide, 1 female.
Extr	Males		ı	to prov
	Both Sexes.	טו ההההמון מו הומוו וחוו	18	Neglect
INTOXICATION.	Females.	1	18	Ξ
- TXI	Males.		·	
	Both Sexes.	84// / 84568854455083	109	
Desertion.	Females.	0000 1001-40-606460460	19	female.
	Malos.	1 1 2 4 4 1 8 4 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	8	ovide, 1
	Both Sexes.	46440 G66 4 844-G68	8	Neglect to provide, 1 female.
ADULTERT.	Pemales.	2000 100 100 400 100	#	Negle
	Males.	-0-00 1040 I-1 10 1 1 1400	88	-
	YEAR8.	1877,	Totals, .	

Table 33. — Divorces Granted, by Years and Statute Causes. — Iwenty Years.

HAMPDEN COUNTY.

	Both Sexes.	8811111 8844884888888888888888888888888	1,011
TOTALS.	Females.	888814848888848487444	718
	Males.	77511287827711277	293
RMT.	Both Sexes.	11011111111010111111	8
Imprisonment	Females.	Herrichleretti	80
IMPR	Males.		1
, i	Both Sexes.		35
NEGLECT TO PROVIDE.	Females.		88
Z	Males.		1
BUSIVE IT.	Both Sexes.	88 - 1 - 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2	86
CRUEL AND ABURIVE TREATMENT.	Females.	86 181 164054888818117	\$
CRUEL T)	Males.	TITITI I I I I I I I I I I I I I I I I	2
DELTT.	Both Sexes.		22
ME CH	Females.	144698 1110 13010000041	2
Extreme Cruelty	Males.		_
10N.	Both Sexes.	222222222222222222222222222222222222222	180
Intoxication.	Females.	00 17 18 18 19 19 11 11	179
INT	Males.	11111100111010100100	=
ж.	Both Sexes.	0 8 2 3 4 11 8 8 8 8 9 1 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2
DESERTION	Females.	741 128 121 141	269
ā	Males.	2000014822202	181
Ë	Both Bexes.		182
ADULTERY.	Females.	⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕	22
W	Malos.	ひきさら ひのてきよびよるようてもきーち	88
			•
	Y Earb.		Totals,
	7	1877, 1878, 1879, 1880, 1882, 1882, 1886, 1886, 1890, 1890, 1891, 1891, 1891, 1891, 1892, 1896,	T

TABLE 34. - Divorces Granted, by Years and Statute Causes. - Twenty Years.

HAMPSHIRE COUNTY.

	Both Sexes.	1128211 12847 12847 1147 1166 1166 1166 1166 1166 1166 11	833
Totals.	Females,	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	82
T	Males.	0000-844 121-81-126/67-64	8
KMT.	Both Sexes.	11111111111111111111111111111	1
IMPRIBONMENT	Females.	111111111111111111111111111111111111111	*
INE	Males.		
. To	Both Sexes.	HITELIELLIELLIELLI	4
NEGLECT TO PROVIDE.	Females.	(THE LET LET LET LET LET LET	4
N	Males.		<u> </u>
BUSIVE NT.	Both Sexes.	01-00-100101-10411-010	8
CRUEL AND ABUSIVE TREATMENT.	Females.	01-00-100 100 1 1 1 1 0 4 1 1 1 H 00 100	8
CRUKI	Males.	TITITITI	-
HLTT.	Both Sexes.	10111011-1111111110	80
Extrems Crorety	Females.	181118114111111118	œ
Extra	Males.		<u> </u>
ION.	Both Sexes.		88
INTOXICATION.	Females.	-31911111-1014010	8
INT	Males.	11-1101111-1111-1-11	9
ż	Both Sexes.	⊕ 2000 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200 € 200	122
DESERTION.	Females.	27年20年17日1818181818181818181818181818181818181	69
. Ā :	Males.	464 818 1 18111004548	83
1	Both Sexes.	02 10 10 10 10 10 10 10	88
ADULTER	Females.	18 18 19 19 19 19 19 19 18 18	12
Ϋ́	Males.	04 n m0 0 n n 10 m n n n n	প্র
			•
	TEARS.		Totals,
l		1877, 1878, 1889, 1881, 1881, 1884, 1885, 1886, 1889, 1890, 1890, 1890, 1890, 1890,	-

* One female, nullity of marriage.

Table 35. — Divorces Granted, by Years and Statute Causes. — Twenty Years.

MIDDLESEX COUNTY.

	Both Sexes.	92 92 92 92 92 93 94 95 95 95 95 95 95 95 95 95 95 95 95 95	2,091
TOTALS.	Females.	65 65 65 65 65 65 65 65 65 65 65 65 65 6	1,467
	Males.	8855828588888888888	\$
ř.	Both Sexes.	lettitleettettettett	9
IMPOTENCY	Females.	(ettitlettie) leetti	20
ă	Males.	11111111111111111111111	-
<u> </u>	Both Sexes.	(8)	7
Imprison- ment.	Females.	18111111111111111111	7
ā į	Males.		1
r To	Both Sexes.	H H H 4 H H H 4 6 H H B 4 6 H H B 4 6 H B 6 B 6 B 6 B 6 B 6 B 6 B 6 B 6 B 6	æ
NEGLECT T. PROVIDE.	Females.		8
Z	Males.		
e F	Both Sexes.	11. 21883.36 - 1. 1. 1. 2. 1.	191
CRUEL AND ABUSIVE TREATMENT.	Females.	22723357769-117-150	150
5 É	Males.	11111111111111111	_
5 6	Both Sexes.	0r-118848 1858r-14884	8
Extreme Cruelty.	Females.	0r 1444 Ta 180 8 4 4 2 8 4	157
	Males.	111111111111111111	8
TOK.	Both Sexes.	25 24 25 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25	252
INTOXICATION	Females.	100 100 100 100 100 100 100 100 100 100	217
Ted.	Males.	1	37
, in	Both Sexes.	823252334445248235525	1,007
DESERTION.	Females.	582222222222222222222 58222222222222222	621
Ā	Males.	3223333272322223222	988
ığ.	Both Sexes.	22222223 2022222222 2022222222222222222	472
ADULTER	Females.	8191121222000000000000000000000000000000	200
qγ	Males.	411889987889811418	308
	YEARS.	8887.5 8887.5 8887.6 8887.6 8887.6 8887.6 8888.6 8	Totals, .

* One female, nullity of marriage.

Table 86. - Divorces Granted, by Years and Statute Causes. - Twenty Years.

NORFOLK COUNTY.

	!	ADD	ADULTERY.		0.00	DESERTION.		Intox	Intoxigation.		artz	Extreme Cruelty	ELTT.	CRUBL	CRUEL AND ABUSIVE TREATMENT.	SUSIVE IT.	P	NEGLECT TO PROVIDE.	٤.,	Impribonment	N N O	EXT.	-	Totals.	
YEARS.	,	Males.	Females.	Both Sexes.	Males.	Femalos.	Both Sexes.	Malon.	Females.	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.	Both Sexes.
8877,	• • • • • • • • • • • • • • • • • • • •	810 01-81-014885488881-1	<u>81 18 18 8 18 8 4 18 8 4 18 8 4 18 8 4 18 8 8 18 8 8 8 8 8 8 8 8 8 8 8 8 8</u>	46 10000000-4600044	⊗⊔⊔⊔∪⊗⊗©⊗⊗⊗⊗∀⊗©⊗★★€₽	66 111 12 12 12 12 12 12 12 12 12 12 12 12	77-1-2 11 12 12 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	011111-11111111-011	81 1811 1816 1488	4-118-21-62-21-14-27-66-	111111111111111111111111111111111111111	81-1111-111-11-18	01-11110111-1-01-	111111111111111111111111111111111111111	1011100000000000000000000	121113122122112311231123112311	1111114111111111111	[#] [[[[[[[[[[[[[[[[[[THE LITTLE HELLING LINES	111111111111111111111	1111111111111111111	1111111141111111111	744466666666666666666666666666666666666	28888888888888888888888888888888888888	777 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Totals, .	•	3	31	62	82	191	72	6	3	28	-	=	12	64	88	\$	-	90	8	١,	80	~	132	293	15
	o O •		e	o Appro	female, nullity of marriage	ė	1		-	80	ale, n	THE CONTRACT	One male, nullity of marriage.	riage,			÷	2 2	a de	H	10 A	† One female, nullity of marriage.	į,		

Table 37. — Divorces Granted, by Years and Statute Causes. — Twenty Years.

PLYMOUTH COUNTY.

	Both Sexes.	286238888888888888888888888888888888888	620
TOTALS.	Females.	1801020117711888888888888888888888888888	425
	Males.	401088888888888888888888888888888888888	195
j.	Both Sexes.	111-11111111-11-11111	67
IMPOTENCE.	Females.	***************************************	-
og	Males.	111-11111111111111	-
±.	Both Sexes.	11111-1-11111111111111	64
IMPRIBON- MENT.	Females.	1111101010111111111111	87
TI .	Males.		
2	Both Sexes.		15
Neglect to Provide.	Females.	-	16
N P	Males.		1
IND	Both Sexes.	04 DD 001 001	82
CRUEL AND ABUSIVE TREATMENT.	Females.	84 1000010004000CCG8 18	11
2,4	Males.	11411111111	1
5 6	Both Sexes.	HH	17
EXTREME CRUELTY.	Females.		92
a	Males.		-
TION.	Both Sexes.		29
Intoxication	Females.		ස
INT	Males.		4
zi.	Both Sexes.	23 25 25 25 25 25 25 25 25 25 25 25 25 25	327
Desertion.	l'emales.	100 100 100 100 100 100 100 100 100 100	202
Ä	Males.	&&&&&&&&	125
ا ند	Both Sexes.	100 110 110 110 110 110 110 110 110 110	112
OLTERY.	Females.	1885 111 1811818448886	49
Ψρα	Males.		8
			•
	YEARS.	8877. 8879. 8879. 8879. 8881. 8887. 8887. 8889. 8897.	Totals,

Table 38. — Divorces Granted, by Years and Statute Causes. — Twenty Years.

SUFFOLK COUNTY.

	Both Sexes.	138 171 184 187 102 148 179 179 179 178 178 178 171 178 178 171 178 178 178	3
 	Hoth Seres		
TOTALS	Females.	120 112 112 112 113 113 113 113 113 113 113	7,017
	Males.	### ### ### ### ### ### ### ### ### ##	1,100
F.	Both Sexes.		•
IMPOTENCE.	Females.	1111111111111	۹
Ä	Males.		•
	Both Sexes.	88181111448814481414	3
IMPRISON- MENT.	Females.	80101111000010001010	3
, H	Males.		· _
2	Both Sexes.		5
NEGLECT TO PROVIDE.	Females.		5
N P.	Males.	111111111111111111111	ı
g w ti	Both Sexes.	228272222222222222222222222222222222222	5
CRUKE AND ABUSIVE TREATMENT	Females.	23 28 28 28 28 28 28 28 28 28 28 28 28 28	7,0
Tan Ca	Males.	111111111111111111111111111111111111111	
24	Both Sexes.	129 000 000 000 000 000 000 000 000 000 0	2
Extreme Cruelty.	Females.	12 12 5 6 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	
ಷರ [⊤]	Males.	111111111111-1111	
TON.	Both Sexes.	2282777282888888888488	3
NTOXICATION	Females.	### ### ### ### ### ### ### ### ### ##	
INTO	Males.	100 4777 401 100 100 100 100 100 100 100 100 100	=
ایر	Both Sexes.	21.00 11.00 12.00	1,010
DESERTION.	Females.	828882828882888888888888888888888888888	3
DES	Males.	128118118188888888888888888888888888888	
	Both Sexes.	248828888448888888888888888888888888888	=
TLTERT.	Females.	848888172998739878988	
γραγ	Makes.	• 28 88 88 88 88 88 88 88 88 88 88 88 88	
			•
	YEARS.	877, 1879, 1879, 1879, 1881, 1882, 1885, 1885, 1885, 1887, 1891, 1891, 1894, 1894,	

Two females nullity of marriage.
 One male, 3 females, nullity of marriage.
 Two males, 6 females, nullity of marriage.

† Two males, 2 females, nullity of marriage. || Three males, 3 females, nullity of marriage. †† Three males, 3 females, nullity of marriage.

† Two males, 4 females, nullity of marriage.
If Three males, 1 female, nullity of marriage.
†‡ One male, 2 females, nullity of marriage.

Table 39. — Divorces Granted, by Years and Statute Causes. — Twenty Years.

WORCESTER COUNTY.

_			
	Both Sexes.	9474 9474 9477 9477 9477 9477 9477 9477	1,705
TOTALS.	Females.	488223823488488883 5	1,172
	Males.	5488°2888888242888	583
j.	Both Sexes.	I I I I I I I I I I I I I I I I I I I	2
IMPOTENCE	Females.	I I I I I I I I I I I I I I I I I I I	-
D.	Males.	131111-1111111111111	-
¥.	Both Sexes.	1111-1110-1111-110	6
IMPRIBOK- MENT.	Females.	1111-1118-1111-118	6
N K	Males.	11111111111111111	1
1 10 1 10	Both Sexes.	0100-1440-1010000000-4	2
NEGLECT 1 PROVIDE.	Females.	01 01 4 4 mm 10 10 80 00 80 0 mm mm	2
N I	Males.	111111111111111111111	<u> </u>
d in	Both Sexes.	2041124117220241124249	E
CRUEL AND ABURIVE TREATMENT	Females.	664 111840776669421 - 5 5555	165
5 'E	Males.	IIIIII I I I I I I I I I I I I I I I I	9
25	Both Sexes.	817118888411881148	28
Extreme Cruelty.	Females.	001110000414110041140	82
M 5	Males.		'
ном.	Both Sexes.	22	249
INTOXICATION	Females.	78888529744 11188888849744	237
Tri	Males.	111111111111111111111111111111111111111	22
Ж.	Both Sexes.	88424-48482488844-5244	181
Веветтон	Females.	3883388852883188878887888888888888888888888888888	479
DE	Males.	232882449445555555555555555555555555555555	318
j.	Both Sexes.	511415 28 28 28 28 28 28 28 28 28 28 28 28 28	3 8
ADULTERY.	Females.	656118841087099975	169
A A	Males.	11 10 10 10 10 10 10 10 10 10 10 10 10 1	8
		• • • • • • • • • • • • • • • • • • • •	<u>. </u>
	YEABS.	 ಕ್ರಾಪ್ ಪ್ರದೇಶ ಪ್ರಸ್ತಿ ಪ್ರಸ್ತಿ ಪ್ರಸ್ತಿ ಪ್ರಸ್ತಿ ಪ್ರಸ್ತಿ ಪ್ರಸ್ತಿ ಪ್ರಸ್ತಿ ಪ್ರಸ್ತಿ ಪ್ರಸ್ತಿ ಪ್ರಸ್ತಿ ಪ್ರಸ್ತಿ ಪ್ರಸ್ತಿ ಪ	Totals,
	•	1877 1878 1879 1880 1881 1882 1888 1888 1888 1889 1890 1890 1890 1890	.,

* One male, nullity of marriage.

TABLE 40. — Total Number of Divorces Granted, by Counties and Statute Gausses. — Twenty Years.

	Both Sexes.	7112	228	1,156	2	2,182	88	1,011	88	2,091	425	95	4,010	1,706	14,475
TOTALS	Females.	143	188	182	7	1,636	91	718	150	1,457	203	33	2,815	1,172	10,072
-	Males.	75	147	874	8	25	2	203	88	3	132	196	1,195	883	4.408
E de .	Both Sexes.	•	,	10	-	1	,	-	-	1	•	1	8	_	3
NULLITY OF MAR- RIAGE.	Females.	-	•	64		1	1	1	-	-	64	•	26	1	엃
Z S M	Males.	1		•>		1	1	1	'		-	_'_	11	_	ផ្ល
ξi	Both Sexes.	ı	64	4		1	1		1	•	•	61	•	61	្ត
IM- POTENOT	Females.		01	4						•	1		64	_	2
2	Males.	<u> </u>								_		-	••	_	9
	Both Sexes.		-	•	<u> </u>	_		•	_	7		64	8	<u> </u>	5
INPERSOR MENT.	Males. Females.	'		-	-	-			4	-	~	"	<u>8</u> '	-	8
		÷	-						-		•	92		3	<u> </u>
Keglest to Provide.	Both Sexes.		=	*		8		3		8	•		<u>=</u>	_	810
ROLEGY PROVID	Females.	_	=	8	e4 ———	- R	•	-2	4	8		22	5	2	8
2	Malos.						<u>'</u>				_			<u>'</u>	-
A ME	Both Sexes	2	2	116	=======================================	22	8	8	8	191	\$	22	# #	E	1.305
CRURL AND ABUSINE TREATMENT	Females.	2	3	118	8	22	8	3	8	150	8	44	872	166	1.863
<u> </u>	Malos.		61	64		8		61	_	_	64	-	27	•	1 2
ä	Both Sexes.	18	2	3	•	101	•	3	•	8	2	11	146	88	ş
EXTREME CRUBLTY.	Females.	28	8	3	•	8	۰	3	•	157	=	2	146	3	E
45	Males.	•	ေ				1	-	-	89	1		-	1]=
10ж.	Both Sexes.	2	2	188	-	88	81	190	8	3	3	10	200	25	8
INTOXICATION	Females.	ដ	3	25	•	8	18	179	8	217	\$	8	448	782	1 646
=	Malos.		64	8	-	8	•	==	•	37	9	*	118	13	1
ا ي	Both Sexes.	121	25	\$	20	1,137	8	3	21	1,007	នឹ	25	1,815	707	6 879
DESERTION	Pemalos.	27	91	8	Ħ	138	5	300	8	22	191	202	1,223	410	4.342
ā	Males.	\$	8	8	7	88	#	181	3	88	78	126	5	818	2.510
	Both Sexes.	\$	8	284	7	456	8	182	8	472	2	211	3	38	8.158
ULTERT.	Females.	8	g	187	•	ğ	7	\$	16	997	ឌ	\$	3	26	1,566
ADO	Males.	8	Ş	32	7	g	8	8	8	8	*	8	462	196	1.562
	,	•	•	•	ġ.	•	·	•	•	•	•	•	•	•	
	COUNTIES.	Barnstable,	Berkshire,	Bristol, .	Dukes and Nan- tneket,	Essex, .	Frankilo,	Hampden, .	Hampshire,	Middlesex,	Norfolk, .	Plymouth,	Buffolk, .	Worcester,	The State, . 1,562

DEATHS.

The total number of deaths for the year 1896 was 49,381, which was 1841 more deaths than the number reported in 1895, and 2,590 more than the number reported in 1894.

It exceeded the average mortality of the five years ending 1896 by 1,053. The death rate for the year was 19.32 per thousand of the estimated living population, which was greater than the previous year, but less than the rate in any year since 1886 except 1889 and 1894.

The deaths of infants under one year was 11,765, which was the largest number in the last twenty years. The lowest infant mortality in the twenty-year period was 5,855 in 1879.

The percentage of deaths of children under one year of age to the total mortality in 1896 was 23.82 as compared with 22.22 in 1895 and 23.29 in 1894. In table 41 is stated the number of deaths and death-rates per 1000 of the living population for each year, and for quinquennial periods from 1851 to 1896 inclusive. The death-rates in non-census years are estimated. The average death rate for forty-five years differs very little from the annual means of the five-year period ending 1895.

In table 42 are stated the death rates for the different counties for the seven census years 1865–1895 and also the number of deaths in each county for the ten-year period 1887–1896.

In all of the counties except Barnstable, Hampden and Worcester there was an increase of deaths over the previous years.

Table 41. — Deaths and Death-rates, 1851-1896.

		YI	ZARS				Deaths Registered.	Deaths to 1,000 Persons Living.	Annual Means of Quinquennial Periods.
1851,							18,934	18.52	
1852,							18,482	17.61	11
1853,							20,301	18.85	18.55
1854,						.	21,411	19.38	
1855,							20,798	18.87	
1856.							20,735	17.99	1
1857,	•	•	•	•	•	:	21,280	18.16	11
1858.	•	•	•	•	•		20,776	17.44	17.00
1859.	:	•	:	•	•	•	20,776	17.32	} 17.98
18 60 ,	:	•	•	٠	:	•	28,068	18.74	11
•	•	•	•	•	•	•	20,000	10.14)
1861,	•	•				. !	24,085	19.45)
1862,	•	•			•	.	22,974	18.45	
1863,	•	•	•			.	27,751	22 · 16	20.71
1864,		•	•			•	28,723	22.82	11
1 865 ,		•	. •			.	26,152	20.64	l j
1866.						- 1	23,637	18-11	1
1867,	•	•	•	•	•	•	22,772	16.95	11
1 86 8.	•	•	•	•	•	•			11
1869.	•	•	•	•	•	•	25,603	18·53 18·35	18.15
1870.	•	•	•	•	•	•	26,054		11
loiv,	•	•	•	•	•	•	27,829	18.75	ען
1871,						.	27,94 3	18.67	1)
1872,		•				.	85,019	22.81	11
1873,						.	33,912	21.54	20.80
1874,						.	31,887	19.77	
1875,						.	84,978	21.17	
1876.						1	99 106	19.77	1
1877.	•	•	•	•	•	•	33,186		! }
1878.	•	•	•	•	•	•	31,342	18.40	10.00
1879.	•	•	•	•	•	•	31,303	18.09	18.83
1880.	•	•	•	•	•	١ ٠ ١	31,801 er 999	18.10	11
1000,	•	•	•	•	•	•	85,292	19.79	ען
l881,	•					.	36,458	20.09)
1882,						.	36,785	19.92	11
1883,						.	37,748	20.09	39.81
l884,						.	36,990	19.36	== 50
1885,						.	88,094	19.61	13
1000						- 1	•		1.
1886,	•	•	•	•	•	•	87,244	18.61)
1887,	•	•	•	•	•	•	40,763	19.78	1
1888,	•	•	•	•	•	•	42,097	19.86	19.37
1889,	•	•	•	•	•	•	41,777	19.17	11
l 890 ,	•	•	•	•	•	•	48,528	19.44	IJ
1891,						.	45,185	19.74	l)
1892.							48,762	20.84	
1893.						.	49,084	20.52	19.83
1894.							46,791	19.13	1 10 00
1895.	•	•	:	•	:	: 1	47,540	19.01	11
	•	•	•	•	•	.)	•		,
1896,					_		49,381	19.32	ì

Table 42. — Death-rates by Counties, 1865, 1870, 1875, 1880, 1885, 1890, 1895, and Deaths, 1887-1896.

				9ldatanta&	Berkshire.	.lotairA	Гаркев.	Essex.	Franklin.	Hampden.	Hampshire	Middlesex.	Nantucket	Nortolk.	Plymouth.	Buffolk.	Worcester.	STATE.
Death	Death-rates, 1865,	1865, .	•	17.8	17.9	20.4	15.4	21.7	18.4	19.0	6.02	19.1	28.0	19.1	22.0	23.3	21.2	20.6
3	=	1870, .	•	14.5	15.4	18.1	14.8	17.4	16.9	19.1	17.1	18.9	22.6	15.6	16.2	23.7	17.9	18.7
3	3	1875, .	•	19.1	18.9	20.1	17.2	21.1	19.8	20.4	20.4	20.9	26.2	17.4	18.6	25.7	18.4	21.1
:	3	1880, .	•	19.0	16.0	21.4	13.9	20.5	16.1	19.9	18.1	18.1	80.9	16.1	16.8	23.4	18.9	19.7
3	3	1885, .	•	18.8	18.0	20.6	25.4	18.1	15.8	18.4	16.9	18.6	33.7	16.7	17.5	24.2	18.1	19.6
3	3	1890, .	•	19.4	18.2	20.3	25.4	20.0	15.8	9.61	18.5	18.4	24.5	16.5	16.9	22.3	17.8	19.4
=	3	1895, .	•	21.4	16.1	19.5	55.6	18.9	15.2	19.2	16.7	18.0	25.2	16.1	16.7	22.4	17.9	19.0
Death	Deaths, 1887,.		•	612	1,334	3,400	88	5,320	683	2,229	869	7,538	87	1,761	1,442	10,667	4,722	40,763
3	1888,	3, .	•	616	1,419	8,503	123	5,313	899	2,512	946	7,563	96	1,876	1,485	10,873	5,105	42,097
3	1889,		•	543	1,328	8,499	88	5,418	574	2,487	860	7,750	87	1,877	1,412	10,933	4,921	41,777
3	1890,		•	299	1,476	8,778	111	200,9	610	2,653	959	7,948	8	1,968	1,563	10,819	4,989	43,528
3	1891,	· <u>:</u>	•	615	1,486	4,109	109	5,916	669	2,644	696	8,506	8	1,945	1,580	11,357	5,220	45,185
3	1892, .		•	640	1,560	4,367	66	6,272	992	3,181	1,061	9,038	120	2,087	1,759	12,013	5,809	48,762
3	1893,	3,.	•	592	1,505	4,608	116	6,064	654	2,999	1,087	9,420	88	2,294	1,751	12,280	2,677	49,084
3	1894,		•	629	1,391	4,416	108	5,584	809	2,616	910	8,862	26	2,176	1,677	12,385	5,402	46,791
3	1895,	5,.	•	592	1,386	4,266	26	6,218	809	2,941	918	8,982	92	2,165	1,696	12,114	5,491	47,540
3	1896,	,	•	284	1,547	4,985	86	6,295	642	2,859	931	9,445	84	2,230	1,854	12,449	5,887	49,381

In table 43 there is a statement of the mortality of Massachusetts compared with that of a number of the countries of Europe. This comparative statement embraces a period of twenty years ending with 1890, and of the single years 1891, 1892 and 1893. It is observable that the average death rate in Massachusetts is less than in twelve of the countries and greater than in Denmark, Ireland, Sweden and Norway. The highest death-rate for the twenty year period is 33.7 in Hungary and the lowest in Norway which was 16.9.

TABLE 43.

COUNTRIE	£8.			Average. 1871-90.	1891.	1892.	1898.
Massachusetts, .		•		19 · 67	19.74	20.84	20-52
Hungary (15 years),		•		33.7	33.1	35·0	81 · 1
Austria,				30.6	27.9	28.8	-
Italy,		•		28 · 6	26 · 2	26.3	25.3
Germany (19 years),	•			26· 0	23 · 4	24 · 1	24.6
Prussia,		•		25.6	22.9	23.4	24 · 2
France,				22.8	22.6	22.6	_
Holland,				22.6	20.7	21.0	19.2
Switzerland,				22.1	20.8	19.3	20.5
Belgium,				21.4	21.0	21.8	20.8
Scotland,				20.4	20.7	18.5	19 • 4
England and Wales,				20.3	20.2	19.0	19 • 2
United Kingdom, .		•		19•9	20.0	19.0	19-1
Denmark,	•	•		19.0	20.0	19•4	18.9
Ireland,			.	18.0	18-4	19•4	17.9
Sweden,	•			17 · 6	16.8	17 · 9	-
Norway,			.	16.9	17.5	17 · 8	16 • 4

In the Report for the year 1895 a table (49) was published showing a few state comparisons. The value of such a table is not great under present conditions inasmuch as there is no uniform system of classification throughout the different States of the Union and none correspond exactly with those of foreign countries.

The State of Michigan, through the work of Dr. Cressy L. Wilbur, Chief of Division of Vital Statistics, has taken the

initial step toward a more modern system of classification; and it is to be hoped that a new, better and uniform system may be adopted by all the States in the near future. The table referred to is omitted from this year's report.

In table 44 it appears that the total mortality for 1896 was greater than that of 1895 and the mortality of every month, except January, February, March, September, October and November was greater than the corresponding month in 1895. The greatest difference was in the month of July. The greatest number of deaths occurred in July, and the third quarter of the year, and the least in November, and the last quarter. In the year 1895 the greatest number of deaths occurred in August.

Table 44. — Relation of the Mortality-rate to Seasons of the Year. —
1895-1896.

	registere	aths ed in each nth.	Dear registered Quar	in each	Percer	nthly stage of lortality.	Quar Percent Total Mo	age of
	1895.	1896.	1895.	1896.	1895.	1896.	1895.	1896.
January, . February, .	3,830 4,544	3,825 3,756	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	11,783	8·06 9·56	7·74 7·61	327.40	1 23·86
March, .	4,652	4,202	5 10,020	11,100	9.79	8.51	52. 10	20 00
April,	3,908	4,122	210.000	11.704	8.22	8.35	200.40	
May, June,	3,651 3,121	4,040 3,622	310,680	11,784	7·68 6·56	8·18 7·33	22.46	23·86
July, August, .	3,917 4,771	5,423 5,391	} 12,806	14,913	8·24 10·04	10·98 10·92	26.94	30-20
September, .	4,118	4,099)		8.66	8.30)	
October, . November, . December, .	3,823 3,492 3,713	3,738 3,351 3,643	} 11,028	10,901	8·04 7·34 7·81	7·57 6·79 7·72	3.20	22.08
THE YEAR,	47,540	49,381	47,540	49,381	100.00	100.00	100.00	100.00

In table 45 are presented the percentages of deaths by quarters of the year for a period of twenty years. The highest percentage occurred in the first quarter in 1892; in the second quarter in 1885; the third quarter in 1896, and the last quarter in 1891.

Table 45. — Percentages of Deaths, by Quarters. — 1877-1896.

						PERCENTAGES OF DEATHS, BY QUARTERS ENDING WITH-							
						March.	June.	September.	December				
1877,						24 · 4	22 · 2	29.7	23.7				
1878,			•	•		23.8	22.2	28.5	25.5				
1879,			•			27 · 4	23.3	26 · 2	23 · 1				
1880,						23.5	23.4	28.6	24.5				
1881,						25.0	23 · 4	27 · 6	24.0				
1882,			•		•	24 · 1	24 · 1	28.7	23 · 1				
1883,			•			23.9	24.7	28.3	28 · 1				
1884,	•					24.1	22.2	28.5	25.2				
1885,			•		•	26.5	24.9	27 · 7	20.9				
1886,					•	23.9	28.0	28.6	24.5				
1887,	•		•			24 · 1	23・4	28.8	23.7				
1888,					•	26.6	28.6	27.8	22.0				
1889,				•		23.5	24 · 1	28.9	23.5				
1890,		•			•	27 · 9	21.9	27.8	22.3				
1891,					•	23 · 1	23.7	27 · 2	26.0				
1892,		•			•	29 · 5	22.5	26.5	21.5				
1893,				•	•	24.9	24.2	27 2	23 · 7				
1894,		•			•	25.6	22.6	28.9	22.9				
1895,		•				27 · 4	22.5	26.9	23.2				
1896,						23.9	23.9	30.2	22.0				

Sex. — Table 46 presents the mortality of males and females from 1860 to 1896, the ratio of the mortality of males to that of females, and also the mortality rate of each sex, the latter being given by census years only. It will be seen that the ratio of deaths of males exceeded that of females in the period of the war 1862–1865, in 1865, 1868, 1871–1873, 1888, 1889 and 1891; and in the five-year period 1892–1896, there has been a gradual annual increase in the ratio of males. In the census years 1865, 1870, 1875, 1880, 1885, 1890 and 1895 the population of females exceeded that of the males.

Table 46.—Mortality of Males and Females compared.—1860-1896.

	Deaths of Males.	Deaths of Females.	Deaths of Males to 100 Deaths of Females.	Death-rate of Males.	Death-rate of Females
1860,	. 11,444	11,547	99.9	19.3	18.4
1862-65 (4 years of wa	r), 54,407	50,994	106.7	-	-
<i>1865</i> ,	. 13.085	13,024	100.5	21.7	19.6
1866,	. 11,601	12,003	96.6	_	
1867,	. 11,359	11,869	99.8	_	_
1868,	12,871	12,695	101.4	_	_
1869,	. 12,777	13,231	96.6	-	-
1870	. 13,699	13,598	100.7	19.5	18.6
1871,	13,985	13,931	100.4		
1872,	. 17,717	17,256	102.7	_	_
1873,	. 17,242	16,642	103.6	_	_
1874,	. 15,912	15,939	99.9	-	-
1875,	. 17.329	17,619	98.4	21.8	20.5
1876	16,485	16,669	98.8		
1877,	. 15,427	15,894	97.1	_	_
1878,	. 15,284	15,986	95.6	_	_
1879,	. 15,628	16,142	96.8	-	-
1880,	. 17,426	17,852	97.6	20.3	19.3
1881,	. 18,147	18,296	99.2		
1882,	18,360	18,418	99.6	-	_
1883,	. 18,840	18,904	99.6	_	_
1884,	. 18,418	18,567	99.2	-	_
<i>1885</i> , , , .	. 18,889	19,205	98.4	20.2	19.0
1886	. 18,585	18,659	99.6		
1887,	. 20,329	20,434	99.5	_	_
1888,	. 21,234	20,863	101.8	_	· -
1889,	. 20,978	20,799	100.9	-	-
<i>1890</i> ,	. 21,767	21,761	100.0	20.0	18·9
1891,	. 22,672	22,513	100.7	_	
1892,	. 24,648	24,119	102.2	_	_
1893,	. 24,899	24,185	102.9	-	_
1894,	. 23,788	23,003	103.4	- 1	_
1895,	. 24,175	23,365	103.5	19.9	18.2
1896,	25,140	24,241	103.7		

In table 47 the deaths by age and sex are given for certain periods of life, for the years 1895 and 1896; by which it appears that in the year 1896, 1,371 more males than females died under one year, and the excess in the deaths of males over females was 1,509 under five years of age. From twenty to thirty years the deaths of the females exceeded those of the males by 38, and for all other ages the deaths of the females exceeded those of the males by 542.

Table 47. — Deaths at Different Ages. —1895-1896.

				Under 1 Trad.	I True	Under 5 Years.	TEAR	20 TO 80.	:	ALL OTHERS	THERE.	TOTALS	47.6
				1895.	188	1885.	1896.	1895.	1886.	1895.	1896.	1895.	1806.
		(Males, .	•	6,919	6,568	8,308	9,050	2,061	2,041	18,806	14,049	24,175	25,140
ij	I. Deaths,	Females, .	•	4,645	5,197	6,894	7,541	2,040	2,079	14,481	14,591	23,865	24,241
		Totals, .	•	10,564	11,765	15,202	16,621	4,101	4,120	28,237	28,640	47,540	49,381
Ħ	Percentages for	(Males, .	•	24.48	26.12	34.87	35.99	8.52	8.11	57.10	55.85	•	ı
	each sex,	Females, .	•	19.88	21.44	29.56	81.23	8.78	8.61	61.76	60 · 19	1	ı
H.	III. Percentages for life,	each period	of .	22.22	23.82	81.98	33.86	863	8.34	69-89	57.99	ı	1
IV.	IV. Females to 1,000 males,	males,	•	785	784	830	833	990	1,018	1,045	1,038	996	964

Table 48 presents the ratio of deaths at certain ages, as compared with the total number, for a period of twenty years. The percentage of deaths under five years of age was greater than that of any year since 1880.

Table 48. — Deaths at Different Ages. — Percentages. — Twenty Years.

·						Under 1 Year.	Under 5 Years.	20 to 30.	All Others.
1877,						20 · 24	85 · 94	9-47	54.89
18 78,						19.77	34 · 50	9.05	56 · 45
1879,				•		18.41	81.95	9 · 29	58.76
1880,						20.34	34 · 58	9 • 27	56 - 15
1881,			• •			20 · 27	32· 80	10.01	57 · 19
1882,				•		20 · 22	31 · 21	10.16	58-63
1883,				•		19.89	31 · 39	10.04	58.57
1884,					.	20.91	82.33	9.61	58-05
1885,						20.03	81-41	9.16	59-42
1886,						21.07	31-61	9.45	58.94
1887,	•	•				20.89	32.26	9.51	58.23
1888,		•			.	21.07	32.09	9.49	58-42
1889,					.	21.79	32-67	9-26	58-07
1890,					.	22.11	31.86	9.03	59.11
1891,			•			22.54	31.58	8.45	59.96
1892,						21.84	31 · 22	9.00	59.77
1893,			•			22.39	82.47	8.81	58.73
1894,		•	•			23 · 29	33.60	8.50	57.91
1895,						22.22	81.98	8.63	59.39
1896,						23.82	88.86	8.84	57 .99

Infant Mortality: — The number of deaths under one year of age for 1896 was 11,765, or 23.82 to the total mortality. This was greater by 792 deaths than the average for the five years, 1892–1896.

As compared with the number of births, the ratio 15.78 per cent. is the least in any single year since 1886, except 1895.

		Births.	Deaths under One Year.	Total Deaths.	Deaths under One Year to 100 Births.	Percentage of Deaths under One to Total Deaths.
1877,		41,850	6,343	81,342	15.15	20 · 24
1878,		41,238	6,189	31,303	15.01	19.77
1879,		40,295	5,805	81,801	14.52	18-41
1880,		44,217	7,190	35,292	16.26	20.34
1881,	•	45,220	7,389	36,458	16-84	20-27
1882,		45,670	7,438	36,785	16.30	20.22
1883,		47,285	7,511	37,748	15.88	19.89
1884,		48,615	7,735	36,99 0	15.91	20.91
1885,		48,790	7,626	38,094	15.63	20.03
1886,	•	50,788	7,848	37,244	15.45	21.07
1887,		58,174	8,514	40,763	16.01	20.89
1888,		54,898	8,870	42,097	16 · 16	21.07
1889,		57,075	9,105	41,777	15.95	21.79
1890,		57,777	9,625	43,528	16.66	22.11
1891,		63,004	10,186	45,185	16 · 17	22.54
1892,		65,824	10,649	48,762	16 · 17	21.84
1893,		67,192	10,990	49,084	16.36	22.39
1894,		66,936	10,899	46,791	16.28	23 - 29
1895,		67,545	10,564	47,540	15.64	22.22
1896,	•	72,343	11,765	49,381	15.78	23.82

TABLE 49. — Infant Mortality. — Twenty Years, 1877-1896.

Table 50. According to this table, it will be observed that the mortality changes in conformity to the age. The highest rate is under one year. It is to be regretted that the materials for 1890 could not be found to complete the table, as the only true way to find the rate of death.

In table 51 is given the average age at death of all who have died in the state, by counties, for forty-five years in quinquennial periods. In every county there was an increase in the average age, as compared with the average for thirty years, ending 1880. The average of the ages at death in the five-year period, 1891–1895, is greater in every County than that of the preceding five years, except Dukes, Hampshire, and Suffolk Counties.

Table 50. — Population, Deaths and Death-rates per 1,000 Living at Specified Ages, 1865–1895.

	ALL AGES.	Under It. Under 5.	Under 5.	5 to 10.	5 to 10. 10 to 15. 15 to 20. 20 to 30. 20 to 40. 40 to 50. 50 to 60. 60 to 70. 70 to 50.	15 to 86.	36 to 36.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	7● to 80.	86 and Over.	Unknown.
Population, 1866,	1,267,081	23,719	188,943	143,891	126,691	111,111	225,566	186,543	142,881	96,440	52,216	26,675	8,316	1,302
Deaths, 1865, .	. 26,152	4,869	161,6	1,883	661	1,128	2,837	2,168	1,694	1,687	1,949	1,880	1,860	186
Death-rates, 1866,	20.64	206-28	68.62	89.6	6.14	8.6	12.68	11.68	11.86	17-49	83.90	70-48	168.23	•
Population, 1870,	1,457,851	82,987	166,889	189,796	143,871	142,184	274,859	214,151	162,689	108,348	68,401	31,895	9,727	Ţ
Deaths, 1870, .	27,829	6,206	9,878	825	999	1,027	2,838	2,276	1,947	1,887	2,068	2,196	1,664	198
Death rates, 1870,	18.75	188-18	62.92	9.30	8.74	7.88	10.48	10.62	11.86	16.96	80.08	98.89	170.04	•
Population, 1875,	1,661,912	34,040	178,855	163,738	148,365	165,936	310,861	240,966	182,828	126,430	79,186	38,283	11,167	10,802
Deaths, 1875,	84,978	7,712		1,603	706	1,287	3,246	2,743	2,361	2,836	2,760	2,950	1,966	180
Death-rates, 1875,	21.17	226.56		24.6	4-72	1.73	10-49	11.30	12.97	18.20	84 · 79	11.11	176-41	•
Population, 1880,	1,783,085	87,587	179,307	171,506	161,425	167,596	848,701	264,418	203,516	142,053	91,619	44,337	18,525	•
Deaths, 1880, .	. 85,292	7,190	12,213	1,468	611	1,104	8,269	721	2,884	2,638	8,104	8,248	2,489	1,613
Death-rates, 1880,	. 19.79	191-28	11.89	8.52	8.78	8.58	19.6	10.20	11.11	17.86	33.80	78-14	184.02	•
Population, 1885,	1,942,141	88,888	178,888	181,842	176,551	187,247	884,450	288,219	222,920	156,760	101,619	49,235	15,516	7
Deaths, 1885, .	88,094	7,626	11,956	1,858	199	1,190	8,492	8,062	2,880	8,090	8,678	8,750	2,820	188
Death-rates, 1886,	19-61	212-49	67.00	1.46	8.77	9.30	80.6	10.62	12.96	19.11	86-19	16.16	182.82	•
*Population, 1890,	•	•	•	•	,	,	•	٠	•		•	,	•	•
Deaths, 1890, .	48,628	9,625	18,870	1,282	58	1,361	8,931	8,552	8,396	8,642	4,286	4,247	8,116	140
Death-rates, 1990,			,	•	•	ı	٠	•	•	1	1	ı	•	•
Population, 1895,	2,500,183	48,933	235,647	224,119	202,900	225,881	621,392	400,134	282,781	199,511	125,288	61,011	18,610	8,014
Deaths, 1895,	47,540	10,564	15,202	1,307	979	1,207	4,101	3,873	8,578	4,080	4,933	820'9	8,418	11
Death-rates, 1895,	19-01	215-89	19.19	6:28	8.18	5.34	1.08	9.61	12.66	20.48	80.87	82-41	184-66	•
	-	_			_		_	_	_		_	_	_	

· Population by ages not obtainable.

Table 51. — Average Ages at Death, by Counties. — 1851-1895.

_	•														
TEARS.	.atată	əldatanraß	Berkshire.	Rrietol.	Dakes.	Etsez.	Frankiln.	Hampden.	erideqmaH	Middlesex.	Nantucket.	Morfolk.	Plymouth.	Buffolk.	Worcester.
1851-1855 (mean), · ·	27-07	30.63	83.07	28.08	39.36	28 · 14	35.56	28.94	34.32	25-47	25-47 87-45	28.02	83.68	20.10	29-61
•	27 - 72	82.49	32.66	29.18	42.28	27-68	35.26	28.39	84.60	26.57	87.76	28.97	81-12	21.83	29 - 34
	28 · 14	84.28	82.09 29.27 48.56 28.08 27.29 27.87 32.16 27.29 44.61 27.63 38.30 23.00 28.81	29.27	43.56	28.08	27 - 29	27.87	32.16	27.29	44.61	27.63	33-30	23.00	28.81
•	30.31	40.11	84 - 48	32.64	47.01	47.01 80.35	40.30	28.12	37.21	29.29	87.21 29.29 58.52	31.85	89.18	24.51	31.31
	29.34	40.05 33.25	33.25	30.22	48.72	80.17	39.56	26.15 34.60 28.26 54.28	34.60	28-26	54.28	33.39	39.25	23.68	32-07
	81.64	44.87	36.32	90.08	49.99	31.39	43.49	28.66	88-09	30.27	58-33	35.82	41.90	26.90	83.81
Average of 30 years, .	29 - 04	96.98	33.64	29.91	45.08	29.30	88.58	27.94	35.16	27.86	46 - 15	30.95	36 - 24	23.34	80.82
•	33.37	49.84	35.85	32.04	20-77	84-77	48.50	28.36	40.05	38-12	51.96	89-03	42.72	28.55	34.33
	33-91	49-41	35.85 31.08 52.71 34.86 44.05 .30.62	31.08	52.71	34.86	44.05	-30.62	40.15	82.79	82.79 66.52	38.83	44.01	44.01 30.46	35.25
•	84.78	50.10	87.58 29.99 52.67	29.99	29.67	36.82	85.82 45.00 31.47	31-47	87.51	88.76	88.76 55.84		44.81	89.72 44.81 30.32	35-94

In table 52 are presented by counties the percentages of deaths by nativity for 1896. From this table it appears that the ratio of deaths of the native-born to the total mortality of those whose parentage was known was the greatest in Dukes, Nantucket and Barnstable, and the least in Middlesex and Suffolk counties.

In reports for other years has been published here a table relative to the deaths of persons reported as having lived one hundred years or more. In table XII page 78 are stated the names and other principal data relative to those persons who have died in 1896 who were reported as having lived one hundred years or more, and it is not necessary to repeat this table. Of the whole number reported in 1896, 90.9 per cent were females and 36.4 per cent were of foreign birth. All had been married.

Table 52. — Nativity of those whose Deaths were Registered in 1896, by Counties.

		NATIVE	Bons.	FOREIG	n-Born.	NATI ST	VITY NOT ATED.	Ton	ALS.
COUNTIES.		Nos.	Percent-	Nos.	Percent-	Nos.	Percent-	Nos.	Totals.
Barnstable,		507	86.21	64	10.96	13	2.23	584	100.00
Berkshire,		1,155	74-66	360	23 · 17	32	2.07	1,547	100.00
Bristol, .		3,630	72.83	1,321	26 - 49	34	0.68	4,985	100-00
Dukes, .		91	92.86	6	6 · 12	1	1.02	98	100.00
Essex, .		4,751	75 - 47	1,480	28.51	64	1.02	6,295	100.00
Franklin,		535	83 - 33	97	15 · 12	10	1.55	642	100.00
Hampden,		2,124	74.29	706	23.72	29	0.99	2,859	100.00
Hampshire,		729	78 - 30	193	20.78	9	0.97	981	100.00
Middlesex,		6,791	71.90	2,564	27 · 15	90	0.95	9,445	100.00
Nantucket,		79	94.05	5	5.05	_	-	84	100.00
Norfolk,		1,707	76.54	489	21.93	34	1.53	2,230	100.00
Plymouth,		1,511	81 . 50	317	17 - 10	26	1.70	1,854	100.00
Suffolk, .		8,354	67 • 09	3,987	32.03	108	0.08	12,449	100 • 00
Worcester,		8,921	72.90	1,395	25.94	62	1.16	5,378	100-00
Totals,	•	35,885	72.67	12,984	26.89	512	1.04	49,381	100.00

CAUSES OF DEATHS.

The total number of deaths for the year 1896 was 49,381. Of this total there were 494 cases reported as from causes unknown or ill-defined, comprising 111 deaths from hemorrhage. 96 from tumor, 3 from inflammation, and 284 deaths the causes of which were not stated on the returns. The percentage to the total mortality for these unspecified causes for 1896 was 1.06, as compared with .94 in 1895, 1.0 in 1894 and 1.1 per cent in 1893. In the Registration Report of 1890 the average percentage from these causes for the decade 1871-1880 was stated as 3.21, and the subsequent decade, 1881-1890, was 1.37. It is obvious from these data that there is much improvement in the diagnosis, tending to a better registration. In table 53 are presented the percentages of each class of diseases from specified causes for a period of ten years, ending 1896. A comparison with former reports shows that there is an average decreased percentage in the class of deaths from Zymotic, Constitutional, Developmental and Violent causes, and an increased percentage in the class of Local diseases.

I. Zymotic Causes: — Table 54 exhibits the statistics of the principal Zymotic or infectious diseases for a period of ten years, 1887–1896. By this table it appears that the sum of these diseases in 1896 was greater than that of any year in the decade except 1893 and 1894, and 224 greater than that for the ten-year period.

The deaths from Dysentery were very largely in excess not only of those of the previous year but also 155 more than the average mortality from this disease in the ten-year period.

The mortality from Typhoid fever was in excess of that in 1895 but the total number of deaths was less by 91 than the average number for the ten-year period.

Table 53. — Percentage of Causes of Death, by Classes.* — Ten Years.

								CLASSES.		
		YEA	R S.			Zymotie.	Constitu- tional.	Local.	Develop- mental.	Violent Deaths.
1887.		•		•		19.7	22.6	42.7	10.7	4.2
1888,						19.1	21.8	43.7	10.2	4.0
1889.						19.2	21.5	43.5	10.5	4.0
1890.						18.6	21.2	44.8	10.1	4.2
1891,						18.3	20.0	46.5	10.2	4.1
1892,						18.9	19.1	46.9	9.8	4.3
1893.			•	·		17.8	19.1	47.8	9.6	4.5
1894.		-		·	·	18.7	19.8	46.2	9.6	4.8
1895.			·	·		17.0	20.2	47.5	9.7	4.6
1896,	•			•	•	17.3	19.7	47.4	10.0	4.7
A	vera	ge.				18.5	20.5	45.7	10.0	4.3

^{*} Excluding deaths from unspecified causes, and still-births.

Table 54. — Mortality from Prominent Zymotic Diseases. — Ten Years.

					Disk	ASES.				
YEARS.	Dysentery.	Typbold Fever.	Whooping- cough.	Croup.	Diphtheria.	Measles.	Scarlatina.	Cholera Infantum.	Small-pox.	Totals.
1887,	266 248 299 220 234 198 231 216 209 407	922 943 891 835 821 827 750 748 680 723	232 245 310 363 219 248 274 435 269 282	532 500 484 387 311 350 322 293 352 353	1,096 1,381 1,780 1,289 907 1,105 1,072 1,508 1,432 1,824	455 219 171 114 236 88 276 98 117	594 504 185 196 246 669 810 649 483 249	2,131 2,195 2,156 2,491 2,771 2,898 2,704 2,676 2,377 2,957	3 8 4 1 - 2 9 33	6,281 6,198 6,282 5,846 5,745 6,380 6,448 6,656 5,919 6,482
Average,	252	814	288	388	1,274	191	459	2,506	*6	6,208

[·] Average for seven years.

The deaths from Whooping Cough were 13 more than the previous year, but 16 less than the average deaths from this cause for the decade. The mortality from Diphtheria was less by 108 deaths than the previous year, but higher by 50 than the average for the decade. The deaths from Measles were 137, 54 deaths less than the average for the decade, 1887–1896.

The deaths from Scarlatina show a considerable reduction in 1896 from the four previous years, but are 210 deaths higher than the average for the decade. It is the only disease in the table that is higher than the average, except Diphtheria. The deaths from Cholera-infantum were 2,957, the most in any year of the decade. There were no deaths from Small-pox during the year.

- II. Constitutional Diseases. The number ascribed to Tubercular diseases for the year 1896 was 7,365, of which 5,536 deaths were from Pulmonary Consumption, or 11·21 per cent. to the total mortality. The deaths from Cancer were 1,798, which was 3·64 per cent. to the total mortality as compared with 3·67 per cent. in 1895, 3·4 per cent. in 1894, and 3·1 per cent. in 1893.
- III. Local Diseases. In table 55 are presented the statistics of the principal local diseases. In 1896 the number of deaths ascribed to Apoplexy, Insanity, Paralysis, and Convulsions (diseases of the nervous system), was 4,301, which was 271 greater than the number reported from the same cause in 1895, 340 more than the number reported in 1894, and 481 more than the average for the decade 1887–1896. The number of deaths from Apoplexy was 2,035, which was 222 more deaths than that of 1895, and 508 more than the average for the ten year period. The number of deaths from Paralysis was one less than the previous year, and 22 less than the average for the decade.

Table 55. — Mortality from Principal Local Diseases. — Ten Years.

					Disz	ASES.				
YEARS.	Apoplexy.	Paralysia.	Insanity.	Convulations.	Heart Diseases.	Bronchitis.	Pleurisy.	Pneumonia.	Peritonitis.	Bright's Disease, Nephritis and other Kidney
1887,	1,225 1,233 1,220 1,301 1,464 1,603 1,655 1,718 1,813 2,085	1,249 1,277 1,146 1,235 1,214 1,277 1,210 1,145 1,193 1,192	145 204 214 188 236 253 272 285 234 238	861 847 886 889 842 873 883 813 790 836	2,837 3,061 8,280 3,579 3,787 3,910 3,696 3,621 3,769 3,871	1,212 1,326 1,276 1,533 1,658 1,886 1,738 1,572 1,558 1,452	104 118 95 118 115 216 200 159 171 182	3,348 3,716 3,440 4,038 4,337 5,020 5,499 4,101 4,652 4,703	387 415 462 484 517 564 591 590 708 587	1,120 1,318 1,290 1,808 1,496 1,569 1,685 1,788 1,926 2,009
∆verage,	1,527	1,214	227	852	8,541	1,521	147	4,285	540	1,550

The number of deaths of infants reported as having died of causes incident to the time of birth was 1,324. Heretofore it has been customary in this computation to include the stillborn. There seems no good reason for considering in statistics relative to the causes of death cases which never had independent life. In comparison with 1895 the number of children born alive in 1896 who died of the above mentioned causes was 61 more than the number of the preceding year.

Table 56 contains no figures relative to the still-born, differing in this respect from the corresponding table in previous years.

TABLE	56. — Mortality	from	Chief	Developmental	Causes. —	Ten
			Years.			

						Dist	ASKS.		
	YEAR	3.		Teething.	Infantile, Premature.	Child-birth.	Abortion.	Puerp. Con- vulsions.	Old Age.
1887,				108	826	114	6	27	1,961
1888,				109	859	110	7	27	2,024
1889,				82	911	164	8 5 6 8	38	1,873
1890,				89	861	198	5	25	1,859
1891,				67	914	180	6	38	1,951
1892.				65	1,129	211	8	31	1,895
1893,				50	1,226	235	14	36	1,861
1894.				61	1,179	216	7	45	1,669
1895.				78	697	266	13	30 i	1,715
1896,	•	•	•	70	1,324	244	5	8	1,789
Ave	rage,			78	993	194	7	31	1,854

The number of deaths as reported due to Insanity was 4 more than in the year 1895, and 9 more than the average for the decennial period. The Deaths from Convulsions were more by 46 than those of the preceding year, and 16 less than the average for the ten-year period. The deaths from the group of heart diseases were 3,871, an increase of 102 deaths over the previous year, and 330 more than the average of those of the decennial period. The number of deaths from the principal diseases of the respiratory organs — Pneumonia, Bronchitis, and Pleurisy, was 6,337, which was 44 less than those from the same causes for the previous year, but 384 more than the average for the ten-year period, 1887–1896.

From Bronchitis there were 1,452 deaths, which was 106 less than those of the previous year, and 69 less deaths than the average for the decennial period.

From Pleurisy there were 182 deaths, which was greater by 35 than the average for the ten-year period.

The deaths from Pneumonia were 4,703, an increase of 51 deaths over the number reported in the previous year, and 418 more deaths than the average for ten-year period.

The deaths from Peritonitis were 587, which was 116 less than those of the preceding year, 3 less than in 1894, and 47 more than the average for the decennial period.

The number of deaths reported from old age was 1,739, which was greater than those of the previous year, but less than the average for the decade, 1887–1896.

The number of deaths from causes incidental to childbirth was 244, as against an average of 194 for the decennial period.

Deaths from Violence. — The total mortality from the principal causes due to violence, either homicidal, suicidal or accidental, was 1,307, an increase of 51 deaths from the preceding year, and 21 more deaths than the year 1894.

YB	ARS.		Burne and Scalde.	Poison.	Ballroad Accidents	Drowning and Lost at Boa,	Freezing.	Hoat.	Lightning.	Homicide.	Suicide.	Totale.
1887,			100	44	273	375	-	84	1	14	165	1,056
1888,		•	113	62	265	349	8	17	8	16	164	992
1889,	•		130	52	241	350	-	9	4	12	175	978
1890,		•	134	63	274	366	-	80	6	18	180	1,071
1891,		•	125	69	300	346	-	30	-	14	168	1,052
1892,	•	•	162	75	322	842	1	79	10	22	239	1,252
1893,	•	•	180	90	362	400	1	13	6	18	249	1,319
1894,	•	•	170	110	298	416	1	33	7	25	226	1,286
1895,	•	•	170	89	310	887	2	14	8	26	255	1,256
1896,		•	185	68	300	340	1	135	1	19	263	1,307

Table 57. - Violent Deaths. - Ten Years.

The deaths of persons drowned and lost at sea were 340, which was less than any year since 1891.

One death is reported as having been caused by lightning and 135 by heat. For further discussion of violent deaths see the Medical Examiners' returns.

Most prominent causes of death. — The following are twenty of the most prominent causes of death in their numerical order:—

Consumption,					5,536	Infantile, pres	natur	e,			1,324
Pneumonia,					4,703	Tabes Mesent	erica,				1,194
Heart Disease,					3,871	Paralysis,					1,192
Cholera Infant	um,				2,957	Enteritis,.	•				1,072
Apoplexy,					2,035	Convulsions,					836
Cancer, .					1,798	Typhoid Feve	r,				723
Old Age, .					1,739	Diarrhœa,	•				604
Nephritis and B	righ	t's D	iseas	е,	1,640	Peritonitis,					587
Cephalitis,					1,538	Hydrocephalu	s and	l Tu	bercu	1-	
Bronchitis,					1,452	lar Meningi	tis,				533
Diphtheria,					1,324						

Of these diseases the most destructive are Consumption, Pneumonia, Heart Disease and Cholera Infantum, varying very little annually from the same relative order.

In table 58 is presented the mortality of each sex from some specified causes in each month for different specified periods of life. In the majority of the diseases the largest number of deaths occurred under five years. In Consumption the greatest number of deaths occurred between 20 and 50 years.

TABLE 58.— Number of Deaths from Several Specified Causes, of Each Sea, in Each Month and at Different Specified Periods of Life, which were Recistered during the Year 1896.

ĺ				7	t errous uj		יייים יייי	rom ana	Life, which were regions on wir his his 1000.	ne men en	or own f					
	ET	i <u>sa</u>	YEAR 1496.	 ±	 - 	50	Small-pox.	Measles.	Scarlatina. Diphthoria.	Diphtheria.	Croup.	Typbold Fever.	Dysentery.	Cholera Infantum	Consump.	Pneumonia.
	Totals, .						1	137	249	1,324	353	728	407	2,957	5,536	4,708
x.	Males, .	•	•	•	•	•	ı	59	127	686	177	897	179	1,599	2,693	2,480
~ SE	Females, .	•	•	•	•		1	28	122	689	176	826	828	1,358	2,848	2,223
	January, .	•	•		•	•	1	61	16	142	33	64	2	7	477	\$04
	February,		•			-	ı	4	17	108	33	37	5	83	464	536
	March, .	•	•	•	•	•	ı	80	98	8	3 6	33	4	န	511	644
	April, .	•	•	•	•	•	ı	6	27	101	8	88	4	14	522	699
.8	May,	•	•	•	•	•	ı	10	27	106	19	41	5	25	517	484
HT	June, .	•	•	•	•	•	1	20	36	26	14	87	10	186	467	265
NOJ	July, .	•	•	•		•	1	24	16	79	16	44	2.2	1,309	474	195
ľ	August, .	•	•	•		•	1	18	9	2	12	72	168	1,019	447	117
	September,		•	•		•	ı	83	10	105	22	104	91	306	410	197
	October, .	•	•	•		•	ı	10	12	147	88	116	19	61	441	277
	November,	•	•	•		-	1	11	88	143	47	98	14	18	376	828
	December,	•		•	•		ı	24	84	136	99	22	8	9	430	486
						_	_									

Table 58 — Concluded.

	THE		EAR 1896.	į			Small-pox.	Measles.	Scarlatina, Diphtheria.	Dipptheria.	Croup.	Typhoid Fever.	Dysentery.	Cholera Infantam.	Consump- tion.	Pneumonia.
	Totals,					-	,	187	249	1,824	353	728	407	2,957	5,586	4,708
_	Under 5, .	•	•	•	-	•	1	118	169	822	289	21	136	2,957	257	1,561
	5 to 10, .	•	•	•	•	•	1	∞	63	347	61	33	24	1	92	114
	10 to 15, .		•	•	•	•	ı	•	9	92	81	40	∞	1	102	46
	15 to 20, .	•	•	•	•	•	ı		အ	21	ı	88	2	,	479	100
	20 to 30, .	•	•	•	•	•	1	4	န	19	1	258	20	ı	1,785	306
$\overline{}$	80 to 40,	•	•	•	•	•	,	63	*	8	i	145	16	1	1,316	394
	40 to 50, .	•		•	•	•	1	1	-	11	١	99	22	1	714	466
_	50 to 60, .	•	•	•	•	•	1	1	1	84	ı	52	೫	ı	430	491
	60 to 70, .	•	•	•	•	•	ı	1	'	4	-	16	47	1	569	539
	70 to 80,	•	•	•	•	•	1	-	1	-	1	10	47	1	166	448
	Over 80, .	•	•	•		•	1	!	ı	-	1	4	20	1	27	237
_	Not stated,	•	•	•	•	•	ı	1		ı	'	'	1		83	03

In the preceding tables the deaths from several causes have been reduced to twenty and ten-year periods. In many of the following tables the mortality has been extended for longer periods.* In the following table the mortality from Small-pox embraces a period of forty-six years.

During the year 1896 there were no deaths from Small-pox. With the exception of 1886 and 1895 this was the only year in which the State of Massachusetts was exempt from deaths from Small-pox since 1851. The most noteworthy epidemic that occurred during the period of forty-six years was in 1872-73. Since that time the deaths from this disease have been comparatively few and the disease seems under complete control.

YE.	ABS.		Deaths.	Percentages of Death a to Deaths from all Causes.	Death-rates per 10,000 Living.	YEA	ARS.		Deaths.	Percentages of Deaths to Deaths from	Death-rates per 10,000 Living.
1851,			117	•61	-	1874,			26	-08	_
1852,			33	•18	-	1875,		.	34	•09	•2
1853,			38	-19	-	1876,			31	•09	-
1854,			207	•97	-	1877,			24	•08	-
1855,			325	1.56	2.9	1878,			2	•007	-
1856,			140	•68	-	1879,			7	•02	-
1857,			23	•11	-	1880,		.	88	•11	•21
1858,			12	•10	-	1881,		.	47	•13	-
1859,			255	1 · 22	-	1882,		.	45	•12	-
1860,			334	1.45	2.7	1883,			5	•01	-
1861,			33	•14	- !	1884,		.	8	.008	-
1862,			40	•17	-	1885,			19	•05	•10-
1863,			42	•15	-	1886,			-	-	-
1864,	•		242	·8 4	-	1887,			8	•007	-
1865,		•	221	.84	1.7	1888,	•	•	8	.019	-
1866,			141	.59	-	1889,			6	·014	-
1867,			196	•82	-	1890,			1	•002	.005
1868,			20	•08	-	1891,			3 2	.006	-
1869,			59	•22	-	1892,			2	•004	-
1870,			131	.48	.9	1893,	•	•	9	•018	-
1871,			294	1.05	-	1894,			88	.070	-
1872,	•		1,029	2.94	-	1895,	•		_	-	-
1873,		•	668	1.97	-	1896,	•		-	-	_

Table 59. — Mortality from Small-pox. — Forty-six Years.

Measles. — Table 60 presents the mortality from Measles for a period of thirty-six years. The highest rate per 10,000 liv-

[•] The percentage of deaths to 1,000 living is given in the following tables only for the census years.

ing in census years during this period was 1.8 in 1870, and the lowest in 1895. The smallest number of deaths was in 1879 when only 19 deaths were reported.

Table 60. — Mortality from Measles. — Thirty-six Years. — 1861-1896.

YEAR	3.	Deaths.	Deaths to 100 Deaths from all Causes.	Death-rates i'er 10,000 Living.	YEAR	8.	Deaths.	Deaths to 100 Deaths from all Causes.	Peath-rates Per 10,000 Living.
1861,.	•	209	.86	_	1879,		19	•06	_
1862,.		3 69	1.59	-	1880,		236	·67	1.3
1863, .		142	•51	-	1881,		230	•63	_
1864,.		320	1 · 13	-	1882,		68	•19	-
1865, .		186	•52	1.1	1883,		321	•85	-
1866,.		109	•46	-	1884,		75	•23	-
1867,.		191	•85	-	1885,		313	·8 2	1.6
1868, .		287	1.12	-	1886,		130	•35	-
1869, .		222	•85	-	1887,		455	1.12	-
1870, .		269	•98	1.8	1888,		219	•52	-
1871,.		131	•47	-	1889,		171	•41	-
1872, .		428	1.22	-	1890,		114	•26	•5
1873, .		180	•58	-	1891,		236	•52	-
1874,.		161	•50	-	1892,		88	•18	-
1875, .		233	•67	1.4	1893,		276	•56	-
1876,.		47	•14	-	1894,		98	•21	_
1877,.		135	•44	-	1895,		117	•24	•4
1878, .		305	1.00	-	1896,		137	•28	_

Scarlet Fever. — In table 62 is presented the mortality from Scarlet fever for a period of thirty-six years. The largest number of deaths from this disease occurred in 1864, and the lowest number in 1889. The deaths for 1896 were 249, a decrease from the previous year, and 210 less deaths than the average of the ten-year period 1887–1896.*

In the number of deaths by counties there is an increase in Barnstable, Dukes and Suffolk counties, and a decrease in all the rest. There were no deaths from Scarlet fever in Nantucket during either of the years 1894, 1895 or 1896.

[•] In table 61 are presented the statistics by counties of the deaths from Scarlet fever for the years 1895 and 1896.

TABLE 61. — Mortality from Scarlet-fever, by Counties. — 1895 and 1896.

			DEA	THS.		_		DRA	TES.
COUNTII	29.		1895.	1896.	COUNTIES	J. 		1895.	1696.
Barnstable, Berkshire, . Bristol, . Dukes, . Essex, . Franklin, .	:		- 5 40 - 90 1	2 23 3 24 2	Middlesex, Nantucket, Norfolk, Plymouth, Suffolk, Worvester,		•	96 - 14 19 129 36	23 - 7 7 132 16
Hampden, . Hampshire,	•	•	49 4	i	The State,			483	249

Table 62. — Mortality from Scarlet-fever. — 1861-1896.

YE	ARS.		Deaths.	Percentages of De a t h s to Deaths from	Death-rates per 10,000 Living.	YE.	ARS.		Deaths.	Percentages of De a t h s to Deaths from all Causes.	Death-rates per 10,000 Living.
1861.			1,187	4.66	_	1879.			850	2.63	_
1862.	•		1,261	5.42	-	1880,			574	1.63	3.2
1863,			1,399	5.01	_	1881,		.	397	1.09	_
1864.			1,503	5.21	-	1882,		.	3 18	•87	_
1865,			807	3.06	6.4	1883,		.	575	1.52	_
1866,			385	1.58	- 1	1884,		.	627	1.69	_
1867,			828	8.68	- 1	1885,			587	1.54	3.0
1868,			1,369	5.35	-	1886,		.	881	•89	-
1869,	•		1,405	5.39	-	1887,			594	1.46	_
1870,			683	2.49	4.7	1888,		.	504	1 · 19	_
1871,		•	867	3.10	- 1	1889,	•	•	185	•44	-
1872,			1,377	8.98	-	1890,	•	•	196	•45	·87
1873,	•	•	1,472	4.84	-	1891,	•	•	246	•54	_
1874,	•	•	1,382	4.33	-	1892,	•	•	669	1.37	_
1875,	•		1,684	4.81	10.2	1893,	•	•	810	1.65	_
1876,	•		1,222	3.79	-	1894,	•	•	649	1.38	_
1877,	•		467	1.53	-	1895,			483	1.01	1.93
1878,	•	•	404	1.33	-	1896,	•	•	249	•05	-

Diphtheria and Croup. — The number of deaths from these combined causes in 1896 was 1,677, which was 107 less than the preceding year and 124 less than in 1894, but considerably more deaths than in 1891, 1892, and 1893.

In table 63 are stated the numbers of deaths by counties from these combined causes in 1895 and 1896.

TABLE 63. — Deaths from Diphtheria and Croup, by Counties. — 1895 and 1896.

COUNTIES.		ROM DIPH- ND CROUP.	COUNTIES.			ROM DIPH- ND CHOUP.
	1895.	1896.	COUNTIES		1895.	1896.
Barnstable, .	. 12	6	Middlesex,.		349	292
Berkshire, .	. 53	52	Nantucket,.		2	Ī
Bristol, .	. 136	137	Norfolk	٠. ا	91	61
Dukes	. 2	1	Plymouth, .	.	29	32
Essex	167	213	Suffolk	٠. ا	695	595
Franklin, .		2	Worcester, .		134	163
	. 92	100		- 1		
Hampshire, .	. 19	22	The State,	.	1,784	1,677

Table 64. — Mortality from Diphtheria and Croup. — Thirty-six Years.

YEARS.		DEATHS.		PERCEN	TAGES OF	DEATHS USES.		THS TO E	
	Croup.	Diph- theria.	Totals.	Croup.	Diph- theria.	Totals.	Croup.	Diph- theria.	Totals.
1861, .	461	648	1,104	1.89	2.64	4.58	_	_	_
1862, .	484	663	1,147	2.08	2.85	4.93	-	-	-
1863,	864	1,420	2,284	3.09	5.08	8 - 17	-	-	-
1864,	768	1,231	1,999	2.66	4.27	6.93	_	-	_
1865,	504	672	1,176	1.91	2.56	4.47	4.0	5.3	9.3
1866,	431	399	830	1.79	1.65	3.44	_	–	_
1867,	366	251	607	1.58	1.07	2.60	_	_	
1868,	485	297	782	1.92	1.18	3.10	_	_	_
1869,	478	296	769	1.84	1.15	2.99	_	-	-
1870,	434	242	676	1.61	-89	2.50	2.9	1.7	4.6
1871,	473	274	747	1.69	-97	2.66	_	-	_
1872, .	480	273	758	1.38	-78	2.16	-	-	_
1873, .	435	810	745	1.28	•92	2.20	_	_	_
1874,	411	502	913	1.28	1.56	2.84	_	-	_
1875,	680	1,200	1,880	1.92	3.39	5.31	4.1	7.3	11.4
1876, .	684	2,610	3,294	2.13	8.11	10.24	l –	_	_
1877, .	544	2,634	3,178	1.78	8.65	10.43	-	_	_
1878, .	583	1,934	2,517	1.91	6.35	8.26	_	_	_
1879,	559	1,784	2,293	1.69	5.24	6.93	_	_	_
1880.	625	1,769	2,394	1.77	5.01	6.78	3.6	9.9	13.5
1881,	677	1,706	2,383	1.88	4.67	6.55	-	-	_
1882,	491	1,280	1,771	1.33	8.48	4.81	_	_	_
1883,	530	1,091	1,621	1.40	2.89	4.29	_	_	_
1884.	562	1.084	1,646	1.52	2.98	4.45	-	_	-
1885,	520	1,003	1,523	1.36	2.62	8.98	2.7	5.1	7.8
1886, .	5 05	1,058	1,558	1.36	2.82	4.18	_	_	_
1887,	532	1,096	1,628	1.30	2.68	3.99	_	_	_
1888, .	500	1,331	1,831	1.19	3.16	4.35	- 1	_	_
1889,	484	1,730	2,214	1.16	4.14	5.30		_	-
•		, i	.			l i			

			DEATES.			TAGES OF			TRA TO E	
YEAR	8.	Croup.	Diph- theria.	Totals.	Croup.	Diph- theria.	Totals.	Croup.	Diph- theria.	Totals.
1890.		387	1,239	1,626	-89	2.85	3.74	1.7	5.5	7.3
1891,		311	907	1,218	•69	2.01	2.70	_	-	-
1892.		850	1,105	1,455	•72	2.26	2.98	_	_	_
1893.		322	1,072	1,394	•66	2.18	2.84		_	_
1894.		293	1.508	1,801	•63	3.22	3.85	_	_	_
1895.		352	1,432	1,784	.74	8.01	3.75	1.4	5.7	7.1
1896.		853	1,324	1,677	•71	2.68	3.39		_	-

TABLE 64 - Concluded.

Typhoid Fever. — The number of deaths from this disease in 1896 was 723, which was the lowest number except 1895 since 1880. Its percentage of deaths to deaths from all causes was 1.46.

Table 65 presents the statistics of deaths from this disease for thirty-six years, 1861-1896.

In table 66 are presented the deaths by counties from 1887–1896.

Table 65. — Mortality from Typhoid Fever. — 1861-1896. — Thirty-six Years.

YEARS.	Deaths.	Percentage of Deaths to Deaths from all Causes.	Death-rates per 10,000 Living.	YEARS.	Deaths.	Percentage of Deaths to Deaths from all Causes.	Death-rates per 10,000 Living.
1861,	989	4.06	_	1879,	637	1.94	_
1862,	1,135	4.88	_	1880,	882	2.49	4.9
1863,	1,442	5.16	-	1881,	1,072	2.94	_
1864,	1,344	4.66	_	1882,	1,079	2.94	_
1865,	1,691	6.43	13.4	1883,	860	2.28	_
1866,	1,091	4.53	_	1884,	875	2.35	_
1867,	965	4.24	_	1885,	768	2.02	3.9
1868,	896	8.49	-	1886,	800	2.15	-
1869,	1,205	4.62	-	1887,	922	2 · 26	-
1870,	1,333	4.88	9.1	1888,	943	2.24	_
1871,	1,116	3.99	-	1889,	891	2 · 13	-
1872,	1,703	4.86	-	1890,	835	1.92	3.7
1873,	1,406	4.15	-	1891,	821	1.82	_
1874,	1,147	3.56	-	1892,	827	1.69	-
1875,	1,059	3.06	6.4	1893,	750	1.60	-
1876,	881	2.74	-	1894,	748	1.60	-
1877,	814	2.67	-	1895,	680	1.43	2.7
1878,	679	2 · 23	-	1896,	723	1.46	-

Table 66. - Deaths from Typhoid Fever, by Counties. - 1887-1896.

										DEA	D ватив.				
	COUN	UNTIES.				1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.
Barnstable, .	•	•			-	11	-9	15	13	11	6	6	9	63	7
Berkshire, .	•	•	•	•	•	47	22	42	35	88	32	80	47	46	41
Bristol,	•	•	•	•	•	86	88	100	99	72	99	64	63	55	63
Dukes,	•	•	•	•	•	1	81	ေ	1	-	တ	4	1	-	1
Essex, .	•	•	•	•	•	129	123	123	139	122	129	117	88	98	100
Franklin, .	•	•	•	•	•	15	13	11	10	6	11	10	13	12	ø
Hampden, .	•	•	•	•	•	99	93	99	65	69	103	24	36	46	83
Hampshire, .	•	•	•	•	•	14	21	17	15	17	12	17	18	9	∞
Middlesex, .	•	•	•	•	•	197	180	174	213	186	172	153	173	121	166
Nantucket, .	•	•	•	•	•	1	-	ı	1	ı	١	ı	1	1	1
Norfolk,	•	•	•	•	•	30	42	56	56	32	56	98	34	83	88
Plymouth, .	•	•	•	•	•	22	37	80	24	56	56	19	23	56	88
Suffolk,	•	•	•	•	•	187	182	189	156	191	150	141	146	166	179
Worcester,	•	•	•	•	•	115	26	95	88	28	82	98	100	80	54
The State, .	•	•	•	•	•	922	943	891	835	821	827	750	748	680	723
					-	-									

Diarrheal Diseases. — The number of deaths attributed to this group, comprising Diarrhea, Dysentery, Cholera infantum, Cholera and Enteritis, was 5,143, an increase of 968 deaths from the previous year. It was also the largest number of deaths since 1880.

TABLE 67. — Diarrheal Diseases. — 1881-1896.

	YEAI	R 8.		Diarrhœa.	Dysentery.	Cholera Infantum.	Cholera.	Enteritis.	Diarrhosal Diseases.
1881,				458	360	1,861	6 8	456	3,203
1882,		•		488	398	2,159	136	528	8,709
1883,				516	336	1,941	84	523	3,400
1884,				522	254	2,081	108	549	3,514
1885,		•		450	253	1,852	86	608	3,249
1886,				501	243	1,931	77	587	3 ,339
1887,		•		560	266	2,131	68	622	8,713
1888,		•		587	248	2,195	79	670	3,779
1889,				593	299	2,156	77	710	3,835
1890,	•	•		618	220	2,491	88	763	4,180
1891,	•	•		639	234	2,771	103	874	4,621
1892,			•	534	193	2,898	103	994	4,722
1893,				543	231	2,704	93	1,096	4,667
1894,		•		583	216	2,676	97	1,100	4,672
1895,				486	209	2,377	77	1,026	4,175
1896,	•	•	•	604	407	2,957	103	1,072	5,143

Cholera Infantum. — The number of deaths from this disease in 1896 was 2,957, which was 580 more than the previous year. The mortality from this cause in 1896 was the greatest in any year since 1872. The number of males that died from this cause during the year was 1,599, and the number of females 1,358.

Table 68. — Mortality from Cholera Infantum, 1871-1896.

YE	ARS.		Deaths from Cholera Infantum.	Death-rate per 10,000 of Population.	YEARS	3.	Deaths from Cholera Infantum.	Death-rate per 10,000 of Population.
1871,	•		1,718	_	1884, .		2,081	_
1872,			8,254	-	1885, .		1,852	9.52
1873,			2,553	-	1886, .		1,931	-
1874,			2,322	_	1887, .		2,131	-
1875,			2,606	15.77	1888, .		2,195	-
1876,			2,087	_	1889, .		2,156	-
1877,		•	1,927	-	1890, .		2,491	11-13
1878,			1,573	-	1891, .		2,771	_
1879,			1,349	-	1892, .		2,898	_
1880,			2,118	11.31	1893, .	•	2,704	-
1881,			1,861	-	1894, .		2,676	-
1882,			2,159	-	1895, .		2,877	9.50
1883,			1,941	-	1896, .		2,957	_

Consumption. — The number of deaths registered from Consumption in 1896 was 5,536, which was 50 more deaths than the number registered in the previous year. In the accompanying table, where the mortality from this disease is given for a period of twenty-five years, it will be observed that there has been a decrease in the number of deaths, and that the death-rate per 10,000 of the population has steadily decreased from 1872. The average death-rate of Pulmonary Consumption for the decade 1871–1880 was 32·7, the decade 1881–1890, 29·2, and the five-year period 1891–1895, 23·1. A comparison of the years 1895 and 1896 shows that the number of deaths from this cause was greater in 1896 in the counties of Bristol, Hampshire, Middlesex, Nantucket, Norfolk and Worcester, than in 1895, and less in the other counties, while in Dukes the number was the same in both years.

TABLE	69. — Mortality	from	Pulmonary	Consumption. — Twenty-
		81	x Years.	

T	EARS.		Deaths.	Death-rates per 10,000 of Population.	YE.	ARS.	Deaths.	Death-rates per 10,000 of Population.
1871,			5,070	_	1884,		5,798	_
1872,			5,556	_	1885,		5,955	30.7
1873,			5,556	_	1886,		5,897	_
1874.			5,284	_	1887.		5,871	_
1875.			5,788	34.7	1888.		5.728	í -
1876,			5,327	_	1889.		5,581	l –
1877.			5,457	_	1890.		5,791	25.9
1878.			5.834	-	1891,		5,484	_
1879.			5,223	_	1892.		 5,729	-
1880.	•	. 1	5,494	30-8	1893.		5,527	_
1881.			5,886	_	1894,	·	5,463	l –
1882.			5,865	_	1895.		5,486	21.9
1883.			5,931	-	1896.		5,536	_

Table 70. — Mortality from Pulmonary Consumption, by Counties.

1895 and 1896.

			DEA	TH8.		_	DE	ATHS.
COUNTIL			1895.	1896.	COUNTIES	3. 	1895.	1896.
Barnstable,			52	49	Middlesex,		1,036	1,076
Berkshire, .	•		154	149	Nantucket,		4	8
Bristol, .	•		414	496	Norfolk, .		238	261
Dukes, .			4	4	Plymouth,.		198	196
Essex, .			654	612	Suffolk, .		1,637	1,618
Franklin, .			72	50	Worcester,		627	628
Hampden, .			289	276	ļ			
Hampshire,			107	118	The State.		5,486	5,536

Pneumonia. — The number of deaths from Pneumonia in 1896 was 4,703 an increase over the preceding year by 51 deaths. During the first quarter of the year there were 35.89 per cent of all the deaths from this cause, 30.00 per cent in the second quarter, 10.86 per cent in the third quarter, and 23.25 per cent in the fourth quarter of the year.

In the comparison of the counties for the years 1895 and 1896 it will be observed that there is an increase in deaths in every county, except Barnstable, Essex, Hampden, Hampshire, Plymouth and Worcester counties.

Table 71. — Mortality from Pneumonia, by Months and Quarters. 1896.

-		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Months, .		504	536	644	669	484	265	195	117	197	277	329	486
Quarters, .			1,68	4		1,41	8		509			1,09	2
Percentages,	•		35 · 8	1		3 0·1	5		10·8	2		2 3·2	2

Table 72. — Deaths from Pneumonia, by Counties. — 1895 and 1896.

			DEA	THS.			DEA	TBS.
COUNTIE	es.		1895.	1896.	COUNTIES	.	1895.	1896.
Barnstable,			53	42	Middlesex,		849	863
Berkshire, .	•	•	127	160	Nantucket,	•	4	7
Bristol, .	•		346	3 88	Norfolk, .		177	182
Dukes, .		•	2	8	Plymouth,.		186	107
Essex.			603	565	Suffolk, .		1,345	1,522
Franklin, .			49	58	Worcester.		522	471
Hampden, .			3 00	261	•			
Hampshire,	•		89	69	The State,		4,652	4,703

Whooping Cough. — The number of deaths from this disease in 1896 was 282, which was 13 more deaths than the previous year, but 153 less deaths than the year 1894.

Table 73. — Mortality from Whooping-cough, by Counties. — 1887-1896.

	8	UNTIES	; <u>ቋ</u>	 		' I	1887.	1888.	1986.	1996.	1801.	1882	1863.	1894.	1805.	1896.
Barnstable,						•		-	,	2	-	1	-	ç	8	1
Berkshire,	•	•	•	•	•	•	9	-	6	19	9	4	4	13	7	2
Bristol, .	•	•	•		•	•	14	7	24	44	12	88	23	88	11	32
Dukes, .	•		•	•		•	ı	ı	1	١	ı	1	1	-	1	1
Essex, .		•	•	•	•	•	18	56	22	72	19	25	20	40	36	88
Franklin, .	•	•		•		•	4	10	1		4	တ	-	1	12	-
Hampden,	•					•	2	9	22	14	14	23	17	21	20	17
Hampshire,	•	•	•	•	•	•	-	-	တ	12	2	81	8	4	19	-
Middlesex,		•	•			-	53	45	51	62	40	40	41	95	43	75
Nantucket,	•	•		•		•	ı	ı	1	1	1	1	ı	ı	1	-
Norfolk, .						•	10	80	2	15	6	2	12	77	10	∞
Plymouth,	•					•	7	9	4	16	9	80	x 0	19	6	2
Suffolk, .	•	•	•			•	122	116	126	72	75	71	63	134	28	81
Worcester,		•		•		•	13	18	36	88	58	30	22	41	45	13
The State, .	•	•	•	•	•	!	232	245	810	863	219	248	274	435	269	282
And the second s						-	-									

Brain Diseases. — The number of deaths from this group of diseases, which includes apoplexy, paralysis, softening of the brain, insanity, cephalitis, and other unspecified diseases of the brain, in 1896 was 5,404, which was greater by 342 deaths than the previous year, and 509 more than the year 1894.

Table 74. — Deaths from Brain Diseases. Thirty-six Years. 1861–1896.

	YEAI	RA.		Softening of the Brain.	Apoplexy.	Paralysis.	Insanity.	Cephalitis and Unspecified Brain Diseases.	Totals.
1861,			•	42	274	417	61	764	1,558
1862.				48	251	401	'66	716	1,482
1863,				38	268	471	62	798	1,632
1864.				46	821	478	64	1,068	1,972
1865,				43	263	479	75	964	1,824
1866.				58	261	487	106	885	1,797
1867.				41	281	469	111	806	1,708
1868.	•			56	811	630	91	922	2,010
1869.				67	931	607	87	923	2,015
1870.			•	74	894	630	103	968	2,169
1871.	·			71	890	714	89	998	2.262
1872,		-		94	409	791	103	1,487	2.884
1873.	•	-	·	90	431	858	88	1,184	2,651
1874.	:	•		108	433	775	100	1,134	2,545
1875.	•	:	÷	99	460	896	118	1.142	2,718
1876.	•	•	:	95	507	826	146	1,058	2,627
1877.	·	•	·	109	544	873	112	1,011	2,649
1878.	•	•	Ċ	118	562	895	152	1.182	2,909
1879,	•	•	:	105	663	928	118	1,132	2,946
1880,	•	:	÷	121	746	933	142	1.422	3,364
1881.	:	•	:	112	715	998	129	1.398	3,35
1882,	•	:	:	112	706	1.047	153	1.375	3,393
1883.	•	•		122	784	1,056	183	1.417	3,562
1884.	•	•	•	136	857	1,119	166	1.391	3.669
1885.	•	•	•	126	1.008	1,132	188	1.445	3,894
1886.	•	•	•	118	978	1,173	151	1,429	3,844
1887.	•	•	•	118	1.225	1,249	145	1.520	4,257
1888.	•	•	•	117	1,233	1,277	204	1.691	4.529
1889.	•	•	•	121	1,220	1,146	214	1,612	4,318
	•	•	•	109	1,301	1.235	188	1,556	4.389
1890,	•	•	•	129	1,301	1,214	236	1,668	4,711
1891,	•	•	•	119	1,404	1,214	258	1,008	5.036
1892,	•	•	•	119	1,655	1,217	255 272	1,883	
1893,	•	•	•	113	1,000		272 285	1,784	5,144
1894,	•	•	•			1,145			4,99
1895,	•	•	•	107	1,813	1,198	234	1,715	5,069
1896,	•	•	•	113	2,035	1,192	238	1,826	5,40

Alcoholism. — The number of deaths recorded in 1896 as due to this cause, including delirium tremens, was 195, an increase of 17 deaths over the preceding year. Of the whole number of deaths from this cause 159 or 81.54 per cent were men and 36 or 18.46 per cent were women.

Table 75. — Deaths from Alcoholism, 1872-1896.

YE	ZARS.	Deaths.	Ratios to Total Mortality.	Death-rates per 100,000 Living.	YE	ARS.		Deaths.	Ratios to Total Mortality.	Desth-rates per 100,000 Living.
1871,	•	88	3.2	_	1884,			125	3.4	_
1872,		134	3· 8	_	1885,			122	3.2	6.3
1873,		109	3.2	-	1886,			108	2.9	_
1874,	•	107	3.8	-	1887,			111	2.7	-
1875,		87	2.5	5.2	1888,			126	2.9	_
1876,		86	2.6	-	1889,			122	2.9	_
1877,		52	1.6	-	1890,			151	3.5	6.7
1878,		6 5	2 · 1	-	1891,		.	182	4.0	-
1879,		68	2.1	-	1892,			193	8.9	_
1880,		112	3.2	6.8	1893,			205	4.2	-
1881,		123	3.3	-	1894,			150	3.2	-
1882,		126	3.4	_	1895,	•		178	3.7	7.1
1883,	:	113	2.9	-	1896,	•		195	4.0	-

In table 76 are presented the deaths by Cancer for a period of twenty-six years, and from this table it appears that the rate in the census years per 10,000 of population has increased from 3.5 in 1875 to 7.0 in 1895, the highest since the commencement of registration. The deaths of females from this cause comprise about two thirds of the total deaths.

Table 76. — Mortality from Cancer, for Twenty-six Years. — 1871-1896.

YE	ARS.		Deaths.	Death-rates per 10,000 of Population.	YE.	ARS.		Deaths.	Death-rates per 10,000 of Population.
1871,	•		551	-	1884,			1,060	_
1872,			542	_	1885,	•		1,087	5.6
1873,			611	-	1886,	•		1,104	-
1874,	•		585	_	1887,			1,174	-
1875,			593	3.5	1888,		•	1,275	_
1876,	•	•	657	-	1889,			1,325	_
1877,	•	•	646	-	1890,			1,387	6.2
1878,	•		807	_	1891,			1,395	-
1879,	•		862	_	1892,	•		1,402	_
1880,	•		928	5.6	1893,	•		1,533	-
1881,			949	-	1894,	•		1,568	_
1882,			987	_	1895,			1,749	7.0
1883,	•		1,026	_	1896,			1,798	-

In table 77 are presented the deaths from Bright's disease, Nephritis, other Kidney diseases, and Dropsy, with the ratios to the total mortality. In this table Dropsy, which is only a symptom of disease, was largely certified as a cause of death. It has materially decreased since 1882, so that in 1895 the number of deaths ascribed to this cause was 88.

Diseases of the Kidneys. — For reasons already explained in the report of 1886, the diseases of the kidneys are considered in one group.

Table 77. — Mortality from Bright's Disease, Nephritis and other Kidney Diseases, and from Dropsy, and Ratios to total Mortality. Forty-six Years.

	(y-o	± 10								
	YEAI	R.S.		Total Mortality.	Deaths from Bright's Diseases, Nephritis and other Kidney Diseases.	Batic to Total Mor- tality per 1,000.	Deaths from Dropsy.	Ratio to Total Mortality per 1,000.	TOTALS.	Ratio to Total Mortality per 1,000.
1851,			.	18,934	27	1.4	890	20.6	417	22.0
1852,	•	•	•	18,482	32	1.7	418	22.6	450	24.3
1853,	•	•	•	20,301	35	1.7	465	22.9	500	24.6
1854,	•	•	•	21,414	88	1.8	474	22.1	512	28.9
1855,	•	•	•	20,798	56	2.7	501	24.1	557	26.8
1856,	•	•	•	20,734	51	2.5	487	23.4	538	25.9
1857,	•	•	•	21,280	45	2.1	512	24.1	557	26.2
1858,	•	•		20,776	42	2.0	481	23.2	538	25.2
1859,	•	•	•	20,976	56	2.7	522	24.9	578	27.6
1860, 1861.	•	•	• 1	23,068	67	2.9	470	20.4	537	23.3
1862,	•	•	•	24,085 22,974	91 96	3.7	440 467	18·3 20·3	531	22.0
1863,	•	•	• 1	27,751	111	4·2 4·0	533	19.2	563	24.5
1864.	•	•	•	28,723	130	4.5	502	17.5	644 632	23.2
1865.	•	•	.	26,152	173	6.6	492	18.8	665	25.4
1866.	:	•		28,637	135	5.7	462	19.5	597	25.2
1867,	:	•		22,772	161	7.1	421	18.5	582	25.6
1868.	•	•		25,603	206	8.0	470	18.4	676	26.4
1869,	:	:		26,054	239	9.2	458	17.6	697	26.8
1870.	•	•	- : 1	27,329	286	10.5	491	17.9	777	28.4
1871.	•			27,943	870	13.2	527	18.9	897	32.1
1872,				35,019	376	10.7	618	17.6	994	28.3
1873,				83,912	460	18.5	545	16.1	1,005	29.6
1874,	•			31,887	463	14.5	469	14.7	932	29 · 2
1875,		•	. 1	34,978	509	14.5	474	13.6	983	28 • 1
1876,		•		33,186	488	14.7	445	18.4	933	28.1
1877,	•	•		31,342	535	17.1	412	13-1	947	30.2
1878,	•	•	•	81,303	615	19.6	870	11.8	985	81.4
1879,	•	•	•	31,801	693	21.8	380	11.9	1,078	33.7
1880,	•	•	•]	85,292	698	19.7	271	7.7	969	27.4
1881,	•	•	•]	86,458	825	22.6	292	8.0	1,117	80.6
1882,	•	•	•	36,785	877	23.8	313	8.5	1,190	32.3
1883, 1884,	•	•	•	37,748 96,000	959	25.4	296	7.8	1,255	33.2
1885.	•	•	•	36,990 38,094	1,000 1,088	27·0 28·6	234 244	6·3 6·4	1,234	83.3
1886.	•	•	• 1	37,241		30.5	219		1,332	35.0
1887,	•	•	•	40,768	1,135 1,120	27.4	212	5·9 5·2	1,354 1,332	36·4 32·7
1888.	•	•	•	42.097	1,318	31.3	204	4.8	1,532	36.2
1889,	•	•	•	41,777	1,258	30.1	161	3.8	1,322	33.9
1890,	:	:		43,528	1,278	30.0	175	4.0	1,418	33.3
1891.	:	·		45,185	1,474	32.6	166	3.7	1,640	36.3
1892,	:	:	: 1	48,762	1.535	31.5	130	2.7	1,665	84.1
1893,	•	:	- :	49,084	1,637	32.8	161	3.3	1,798	36.6
1894.	•			46,791	1,721	36.8	123	2.6	1,844	89.4
1895,	•	•		47,540	1,860	89.1	88	1.8	1,948	41.0
1896,		•		49,381	1,945	39.4	122	2.5	2,067	41.9
	·		لــــــــــــــــــــــــــــــــــــــ							

Heart Disease. — In table 78 are presented the deaths from Heart disease, and the ratios by sexes, for the census years from 1850 to 1895. The great fatality from this disease will be observed from this table. In 1850 the ratio to 10,000 of population was 3.54, in 1895 the ratio was 14.26. The ratio of males to females was 15.01 to 13.55 from this cause in 1895.

YEARS	DEAT	HS FROM 1 DISEASES.		Sex Un-		ro 10,000 or Population		Percentage of Total
	 Males.	Females.	Totals.	known.	Males.	Females.	Totals,	Mortality.
1850, .	182	169	352	1	3.72	3.34	3.54	2.12
1855, .	296	225	521	_	5.38	3.86	4.60	2.51
1860, .	344	346	690	-	5.76	5.46	5.61	2.99
1865, .	426	379	805	-	7.07	5.69	6.35	3.07
1870, .	514	447	962	1 1	7.30	5.93	6.60	3.52
1875, .	649	681	1,331	1	8 · 17	7.82	8.06	3.80
1880, .	876	850	1,726	- 1	10.20	9 · 19	9.68	4.89
1885, .	1,117	1,110	2,227	-	11.97	11.00	11.46	5 · 85
1890, .	1,695	1,722	3,417	-	-	-	15.26	7.85
1895, .	1,824	1,742	3,566	-	15.01	13.55	14.26	7.50

Table 78. — Deaths from Heart Diseases and Ratios by Sexes. Census Years 1850-1895.

Malarial Fevers. — From Ague and Remittent fever there were reported in 1896, 89 deaths. Four deaths occurred in Berkshire, 12 in Bristol, 10 in Hampden, 1 in Dukes, 4 in Essex, 1 in Franklin, 4 in Hampshire, 27 in Middlesex, 6 in Norfolk, 4 in Plymouth, 8 in Suffolk and 8 in Worcester counties.

Syphilis. — From this disease there were reported 76 deaths, the largest number of deaths occurring in Bristol and Suffolk counties.

Hydrophobia. — There were 2 deaths from Hydrophobia during the year, 1 in Essex and 1 in Middlesex.

Glanders. — There was one death from Glanders during the year, in Franklin county.

Anthrax or Malignant Pustule. — There was one death during the year 1896 from this cause, reported from Essex county.

THE RETURNS OF MEDICAL EXAMINERS.

Chapter 379 of the Acts of 1885 provides that the Secretary of the Commonwealth "shall prepare, or cause to be prepared from such returns such tabular results as will render them of practical utility" and that these shall annually be reported "to the General Court, in connection with the report of the registry and return of births, marriages and deaths."

In accordance with that provision Tables I. and II. have been prepared. These Tables include all cases where the cause of death has been investigated by the medical examiners, after notice that the death was supposed to have resulted from violence.

As in previous years a careful examination of the returns reveals the fact that the general authorities having to do with cases of sudden or violent or mysterious death still fail to appreciate the nature of the duties of the medical examiner, and it appears that he is often summoned in cases where under the wording of the statute he is not only not required to act but is actually prohibited from acting.

"Medical examiners shall make examination as hereinafter provided upon the view of the dead bodies of such persons only as are supposed to have come to their death by violence." Sec. 10, Chap. 26, Public Statutes.

The returns for the year 1896 show that over 36 per cent of all the cases examined were cases where the death was from natural causes, and the returns for the last decade show that during the entire period the cases of death from natural causes "including alcoholism" amounted to an average of nearly 39 per cent yearly.

The writer admits that to draw a hard and fast line between cases that should be investigated by the medical examiner and those which should not is a matter of such difficulty as to almost amount to an impossibility; for instance, in the year

1896 the medical examiners investigated 73 cases, or 3.0 per cent of the whole number investigated, where the death was returned as from "still birth" or "premature birth." Undoubtedly many of these cases were such that a reasonable supposition of infanticide may have been entertained thus clearly bringing the cases within the province of the medical examiner; on the other hand very many were cases of fœtuses in the earliest stages of development which could not at any time have been considered "persons" whose "dead bodies" were to be the subject of official investigation. Inasmuch as the medical examiner is generally notified by some one not having the medical knowledge requisite to enable him to differentiate between bodies of infants viable and those non-viable, there seems no way of relieving the examiner from the duty of viewing all cases of infants whose death he is called on to investigate.

There is, however, as shown by the returns a very large number of cases to which the medical examiner is called, which on the face of things could not have been attended with circumstances causing a supposition of violence. Such cases are those of heart disease, appoplexy and even phthisis, where the death was simply sudden or where no physician had been in recent attendance. To such cases the medical examiner is called in order that a certificate for burial may be obtained, thus putting upon this official the duties which properly belong to another; namely, the city or town physician.

Again, it is not easy to see why cases of deaths from alcoholism are not cases for the medical examiner in every instance. Aside from the cases where alcohol is simply a contributory factor in an accidental, suicidal or homicidal death, a death from alcoholism seems as clearly to be a death from violence, that is, from a cause not natural, as is a case of opium poisoning, and it seems to the writer that such deaths should be classified among the deaths from accident and not grouped with the deaths from natural causes.

The so called "medical examiner" law has been now in operation almost twenty years, and nearly half of the cases investigated receive the attention of the examiner after notification by persons who possibly do not comprehend his duties. It is, however, possible that a proper appreciation of the intent of the provisions of the statute may obtain in the future.

It appears from a comparison of the tables based upon the returns of the registrars and those based upon the returns of the medical examiners that there is a discrepancy especially as to the deaths from homicide and suicide. The reason for this discrepancy is sufficiently obvious, and it is fair to assume that the returns of the medical examiners are the more accurate.

The question of homicide, suicide or accident is often not determined until after the certificate for burial purposes has been furnished to the registrar. This is notably true in cases of hypothetical poisoning, where the long process of chemical examination is necessary for an accurate determination of the facts.

Table 79 sets forth the relative proportion of views to autopsies in the different counties and the whole state for the ten year period 1887–1896.

Table 79. — Views and Autopsies for Ten Years, 1887-1896, arranged by Counties with Ratio of Autopsies to Views for the Individual Counties and the Whole State.

	1887.	7.	1888.		1889.	_	1890.	1891.	-	1898.		1893	يـ	1894.		1895.	=	1896.	Tol.	TOTALS. BO YEARS.	RATIO OF
Counties.	Vlews.	Autopsies.	Views.	Autopaica.	Views.	Views.	Antopsies.	Views.	Antopsies.	Vlews,	Autopales.	Views.	Autopsies.	Views.	Autopsies.	Views,	Views.	Autopsies.	Views.	Antopsies.	AUTOPSIEG TO VIEWS.
	8	64	92	4	13	<u> </u>	21 6	2	-	ន	-	28	-			20 1	8	-0	210	8	1 to 10-
Berkshire,	2 5	-	8	80	19		0 10	99	-	8	•	64	9			28			628	2	1 to 11:0
	. 115	•	130	9	132 8	_	99	167	8	707	2	25	7	243	23	241 24	263	3 16	1,973	3	1 to 10.2
	œ -	ī	60	,	*	_	0	4	0	•	-	*	•		_			-	20	64	1 to 26.
	191	7	101	13	208 16		18	282	16	287	컮	25	12				308	92	2,330	176	1 to 18.2
Franklin,		89	8	-		_		\$	-	\$	1	3	61		_			90	큚	13	1 to 26-2
	102	11	144	2	126 12		127 11	146	2	181	13	170	ឌ			161 20	180	0 10	1,476	150	1 to 9.8
Hampshire,	8 3	64	8	-	2	_		83	64	22	10	8	67		_		_	, 80	311	10	1 to 16.
	. 276	23	281	2			56 17	817	딿	243	2	8	5		_		401	1 87	8,180	288	1 to 11-1
•		•	69	-	0		_	•	٥	61	64	64	•		_				ឧ	8	1 to 6.6
Norfolk,	. 60		8	-	_	_	107	8	•	2	7	2	7	108	_		_		25	8	1 to 13
	<u>.</u>	80	28	ю	8	_	2	2	~	2	•	41	+				22	_	467	\$	1 to 10.9
	- 496	101	\$	8	533		12	514	118	108	125	100	8		_		655		5,708	1,188	1 to 5.
Worcester,	184	12	921	12	162 12		164 9	202	11	8	2	88	ន	1 281	16 20	298 17	804	2	2,236	143	1 to 15·2
The State,	1,556	8	1,661	210	1,664 180	 -	,773	1,840	22	2,210	212	2,221	88	2,150 272	:-	2,817 271	2,416	6 218	19,767	2,308	1 to 8.1
Retio	}		};	<u> </u>	6:0	j T	}	}	[,	}:	1	}	Ť	}:	<u> </u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<u> </u>	} :-			

From table 79 it appears that the county of Suffolk, having the largest population, has the highest ratio of autopsies to views for the decade 1887–1896; and the county of Nantucket, having the smallest population, has the next highest ratio of autopsies to views.

The total number of deaths the cause of which was investigated by the medical examiners in 1896 was 2,416. This number is greater by 99 than the number reported in 1895, and 426 greater than the average number reported during the ten years 1887–1896.

Of the number of cases investigated in 1896, 1,773 were those of males, and 638, or 26.4 per cent, were those of females, while the sex in 5 cases was not specified. The following table gives the comparative data in the matter of sex for the ten years 1887–1896.

TABLE 80.

	YEAR	3.		Males.	Percentage.	Females.	Percentage.	Unspecified.	Percentage.	Totals.
1886,				1,027	74.5	319	23.2	32	2.8	1,378
1887.				1,191	76.5	350	22.5	15	1.0	1.556
1888,				1,261	76.4	373	22.6	17	1.0	1,651
1889.				1,253	75.8	388	23.4	13	0.8	1,654
1890,			. 1	1,803	73.5	449	25.3	21	1.2	1,773
1891,				1,362	74.0	457	24.8	21	1.2	1,840
1892,				1,642	74.3	559	25.3	8	0.4	2,209
1893.				1,678	75.6	530	28.9	13	0.5	2,221
1894,				1,649	76.4	505	23.4	5	0.2	2,159
1895.				1,721	74.3	582	25.1	14	0.6	2,317
1896,	•	•		1,773	78.3	638	26.4	5	0.3	2,416
To	tals,			14,833	74.9	4,831	24.4	132	0.7	19,896

Homicide. — The number of deaths reported as from homicide in 1896 was 74* or 3.06 per cent of the whole number investigated during the year, as compared with 74 or 3.19 per cent in 1895, 68 or 3.15 per cent in 1894, and 614 or 3.13 per cent for the decade 1887–1896.

Of the whole number 17 were cases of infanticide, 15 were cases of abortion, 15 were homicides by firearms, 10 by stabbing and 17 by other methods, including one case of execution. There were no cases of homicidal poisoning reported during the year.

[·] Including one case of execution.

Suicide. — The number of deaths reported by the medical examiners in 1896 as from suicide was 318, or 13·16 per cent, as compared with 281 or 12·13 per cent in 1895, 270 or 12·51 per cent in 1894 and 2,387 or 12·95 per cent for the ten year period.

Methods of Suicide. — Of the whole number of suicides reported 88 were committed by firearms, 26 by cutting the throat or stabbing, 38 by drowning, 59 by hanging, 85 by poison, 3 by throwing the body in front of a moving train, 16 by illuminating gas, and 2 by leaping from a height.

Sex. — Of the 318 deaths reported as from suicide, 247 or 77.6 per cent were males, and 71 or 22.04 per cent were females, as compared with 221 or 78.6 per cent for males and 60 or 21.4 per cent for females in 1895. Of the suicides by illuminating gas 11 were males and 5 were females.

Of the 85 cases of suicide by poison the form of poison used was in 20 cases opium or its compounds, 13 were cases of poisoning by arsenic and its compounds, including "Paris green" and "Rough on Rats," while in 52 cases other kinds of poison were used.

Of the 104 cases of suicide reported as from shooting, cutting the throat, &c., all but 6 were males; of 38 cases of suicidal drowning 23 were males; of 59 cases of suicidal hanging 46 were males; and of 85 cases of suicidal poisoning 55 were males.

The mortality from suicide in the different counties for the year 1896 is presented in the following order:—

Suffolk, .		•	108	Plymouth,			14
Middlesex,			53	Franklin, .			9
Essex, .			41	Barnstable,			5
Worcester,			28	Berkshire,	•	•	5
Bristol, .			20	Hampshire,			4
Norfolk, .		•	16	Dukes, .			0
Hampden,			15	Nantucket,	•		0

Table 81 shows the number of deaths from suicide by counties and for the whole state for the ten years 1887–1896, and shows the ratio of suicide to total mortality by counties and state for same period.

The ratio of death by suicide to the total mortality for the year 1896 was 6.4 per thousand, while the ratio for the ten year period was 5.2 per thousand.

Table 81. — Deaths from Suicide by Counties. — 1887–1896.

	_											Ţ	TOTALS.
COUNTIES.	=	1887.	1866.	1886.	1890.	1891.	1803.	1881.	1994.	1896.	1896.	Nambers.	Batto to total mortality per 1,000.
The State,		178	190	199	196	187	274	290	270	281	318	2,378	5.1
Barnstable,	•	တ	က	84	83	-	-	တ	ı	4	10	24	4.0
Berkshire,	•	9	6	11	13	4	ō	6	16	∞	10	98	9.9
Bristol,	•	10	11	14	16	2	16	22	10	13	8	139	8.8
Dukes,	•	ı	1	. '	-	ı	,	,	ı	81	,	80	3.1
Essex,		53	23	36	24	æ	22	32	\$	88	41	293	2.7
Franklin,	•	တ	2	တ	9	2	∞	7	9	83	6	92	8.7
Hampden,	•	11	10	o,	80	11	23	19	19	19	15	144	5.1
Hampshire,		တ	4	4	4	အ	83	80	4	ø	4	89	3.1
Middlesex,	-	22	36	36	22	81	45	46	88	97	53	385	4.1
Nantucket,	-		ı	H	н	ı	1	1	-	,	;	4	4.8
Norfolk,	•	10	2	18	15	ç	٠	13	13	16	16	115	5.1
Plymouth,		4	2	2	2	7	22	11	13	10	14	84	4.6
Suffolk,		82	28	26	2	22	100	86	83	94	108	746	6.9
Worcester,	•	16	22	20	8	21	31	83	34	98	38	360	4.8
	-	7											

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	Ном	CIDE.	Sui	CIDE.		ENT OR GENCE.	UNKNOW	AL AND N CAUSES, UDING IOLISM.	
	Numbers.	Percentages.	Numbers.	Percentages.	Nambers.	Percentages.	Numbers.	Percentages.	Totals.
1887, .	52	3.34	178	11.12	748	48.07	583	37 - 47	1,556
1888, .	52	3.15	190	11.51	785	47.55	624	37 . 79	1,651
1889, .	51	3.08	199	12.03	792	47.89	612	37.00	1,654
1890, .	35	1.97	196	11.05	862	48.62	680	38 - 36	1,778
1891, .	60	3.26	187	10.16	866	47.06	727	39.52	1,840
1892,	72	3.26	273	12.40	974	44.07	890	40.27	2,209
1893, .	76	3.42	290	13.06	976	43.95	879	39 · 57	2,221
1894, .	68	3.15	270	12.51	975	45.16	846	39 · 18	2,159
1895, .	74	3 · 19	281	12.13	1,019	43.98	943	40.70	2,317
1896,	74	3.06	318	13 · 16	1,042	43.13	982	40.65	2,416
Totals, .	614	3.10	2,237	12.10	9,039	45.60	7,766	39 · 20	19,796

Table 82. — Recapitulation 10 Years, 1887-1896.

Accident or Negligence. — From accident or negligence there were reported in 1896 1,042 cases, or 43·13 per cent of all the cases investigated, as compared with 1,019 cases or 43·98 per cent in 1895, 975 cases or 45·16 per cent in 1894, and 9,039 cases or 45·60 per cent for the ten year period, 1887–1896.

From all other causes, including alcoholism as well as unknown or ill-defined causes, usually of a sudden nature, there were reported 982 cases or 40.65 per cent, as compared with 943 cases or 40.70 per cent in 1895, 846 cases or 39.18 per cent in 1894, and 7,766 cases or 39.20 per cent for the ten year period.

Of the deaths from accident the principal causes were as follows:—

By railroad accident,			294	By other machinery,		9
drowning,			238	poisons,		15
falls, blows and	fall	ing		illuminating gases,		36
bodies,		•	182	exposure,		9
burns, scalds, &c.,			54	horses, etc.,		8
electric cars, .			13	firearms,		15
other vehicles, .			47	lightning,		0
overlaying,			37	heat and sunstroke,		26
other forms of asph	yxia	١, .	19	burning buildings,		22
1 .	•		13	electric shock, .	•	4

Intemperance. — As to how far the abuse of alcoholic stimulants was a factor in the deaths reported as having been the subjects for official examination by the medical examiners the returns for 1896 lack, as in former years, though to a less extent, much in the way of completeness, and the continued lack of uniformity in the reports makes it a matter of considerable difficulty to arrive at a correct estimate of the number of deaths resulting wholly or in part from intemperance. The weight given this factor in any given case seems largely to depend upon the temperament, ideas or individuality of the respective medical examiners.

This number reported for 1896 in the tables was 11 less than the number reported in the tables in 1895, and was 3.77 per cent of the whole number of cases investigated, as compared with 3.97 per cent in 1895.*

Influenza appears to have lost weight as a factor in suicide. The cheap and deadly illuminating gas now furnished shows an increasing roll of victims from accident, and its popularity as a method of suicide is not diminished.

It has been customary for several years to publish in this place the reports of several cases as furnished by the medical examiners. In the report for this year none are published, because it is a question if such matter does not more properly belong to a medical publication than a book assuming to deal only with statistics. These cases as published hardly illustrated the method of procedure under the so-called medical examiner law, and in many instances there is a liability to cause a misapprehension as to the divorce between law and medicine intended by the act of 1877.

[•] This ratio is computed from the returns from the registrars and not as formerly from the individual reports of the medical examiners.

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STATISTICAL NOSOLOGY.

ADOPTED FOR REGISTRATION IN MASSACHUSETTS.

The following plan of a Nomenclature and Classification of Diseases does not essentially differ from that authorized by the Registrar-General of England to be used in the preparation of the "Weekly Return of Births and Deaths in London," and is also, with slight modifications, identical with that embodied in a report drawn up by William Farr, Esq., M.D., of London, for the consideration of the International Statistical Congress which met at Paris in September, 1855; which report was printed in the Appendix to the Sixteenth Registration Report of the Registrar-General, England.

NOTE. — This page and those that follow contain two lists of causes of death. The first — that on the left side — may be called the TABULAR LIST, and comprises all the heads which it is proposed to admit into the complete tables, and under which ALL deaths, from whatever cause, are finally distributed. It represents those diseases which, under the same terms, or terms strictly synonymous with them, are found in practice to occur most frequently.

THE SUPPLEMENTAL LIST is subordinate to the first, and contains the principal special diseases which it may be considered desirable to note. The figures in this list indicate the corresponding numbers of the tabular list under which such diseases are ultimately arranged.

CAUSES OF DEATH.

	TABULAR LIST.		SUPPLEMENTAL LIST.
CL	ASS I.—ZYMOTIC DISEAS	ES.	Of Diseases of Special Character, or rarely fatal.
	ORDER 1 Miasmatic.		
2. 3. 4. 5. 6. 7.	Small-pox	: : : : :	 I. I. — 1. Vaccination not stated. 8mail-pox (second attack). After vaccination. Erysipelas, &c., after vaccination. Ohicken pox. Miliaria. 3. Augina maligna. 5. "Spotted fever." 6. Munps. Tonsilitis. 9. Typhus fever.
10. 11. 12. 13. 14.	Typhoid (and Infantile Foreign Property Carbuncle Influenza Dysentery Diarrhœa	. ′	 10. Pýemia. Hospital gangrene. Erythema. 11. Childbed fever. 12. Anthrax.

CAUSES OF DEATH - (CONTINUED).

TABULAR LIST.	SUPPLEMENTAL LIST.
CLASS I.—(CONTINUED).	
ORDER 1. — Miasmatic.	
I. 1.—16. Cholera Infantum 17. Cholera	
18. Ague	18. Intermittent fever.
19. Remittent Fever	19. Yellow fever. 20. Rheumatism, with pericarditis, or disease of heart.
ORDER 2. — Enthetic.	I Conombra
I. 2.—1. Syphilis	I. 2.—1. Gonorrhœa. Purulent ophthalmia.
3. Hydrophobia	6. Necusia (usually from dis section wounds).
4. Glanders	
5. Malignant Pustule 6. Septicæmia	
ORDER 3. — Dietic.	
I. 8.—1. Privation	I. 8.—1. Want of breast milk.
2. Purpura and Scurvy	2. Rickets. Bronchocele.
3. Delirium Tremens, (Alcoholism)	
ORDER 4.—Parasitic.	
I. 4.—1. Thrush	I. 4.—2. Porrigo. Scabies.
2. Worms, &c	Tape worm.
CLASS II. — CONSTITUTIONAL DISEASES.	Hydatids. Trichiniasis.
ORDER 1. — Diathetic.	1
II. 1.—1. Gout	II. 1.—8. Lencocythemia. 4. Soft cancer.
2. Dropsy	Epithelioma. Sweeps' cancer.
4. Cancer	Melanosis. Other kinds of cancer.
5. Noma (Canker)	Polypus (part not stated)
6. Mortification	Lupus. 6. Bed-sore.
Order 2.— Tubercular. II. 2.—1. Scrofula	II. 2.—1. Psoas (Lumbar) abscess.
2. Tabes Mesenterica	White swelling.
3. Phthisis (Consumption of Lungs)	Cretinism (Goltre). Adenitis, Cellulitis.
4. Hydrocephalus	2. Tubercular peritonitis. 3. Hæmoptysis. 4. Tubercular meningitis.
CLASS III. — LOCAL DISEASES.	4. Tubercular meningitis.
ORDER 1 Nervous System.	
III.1.—1. Cephalitis	III. 1.—1. Phrenitis. Myelitis. 4. Monomania.
2. Apoplexy	Fright.
3. Paralysis	Grief. Melancholia. Raga
5. Chorea	Rage. 6. Hysteria.
6. Epilepsy	8. Laryngismus stridulus. 9. Neuralgia.
7. Tetanus	Ophthalmia. Otitis.
9. Brain Diseases,* &c.	Dis. of spinal nerve. Necrencephalus (Ramol- lissement).

^{*}Other diseases of the brain, or diseases of the nervous system, not otherwise distinguished, are referred to this head. Mutatis mutandis, the note applies to the corresponding heads in other orders of this class.

CAUSES OF DEATH—(CONTINUED).

TABULAR LIST.	SUPPLEMENTAL LIST.
CLASS III (CONTINUED).	
ORDER 2. — Organs of Circulation.	1
III. 2. — 1. Pericarditis *	III. 2.—1. Carditis.
2 Aneurism	Endocarditis.
3. Heart Diseases, &c	3. Hypertrophia. Angina pectoris.
·	Вупсоре.
	Arteritis. Phiebitis.
ORDER 8. — Respiratory Organs.	Hydropericardium.
III. 3.—1. Epistaxis	III. 8.—2. Œdema glottidis.
2. Laryngitis,	4. Empyema. Hydrothorax. Dlaphragmitis. Poeumothorax.
3. Bronchitis	Diaphragnitie.
4. Pleurisy	5. Pulmonary apoplexy.
6 Acthma	 Pulmonary apoplexy. Grinders' asthma.
7 Tama Diagram ha	Miners' asthma. Emphysema.
1. Ining Diseases, &c	
ORDER 4 Digestive Organs.	1
III. 4.—1. Gastritis	III. 4.—1. Glossitis.
2. Enteritis	Stomatitis.
3. Peritonitis	Pharyngitis.
4. Ascites	Casophagitis. 5. Perforation of —
5. Ulceration of Intestines	6. Congenital. Femoral.
6. Hernia	Inguinal.
7. Ileus	Scrotal. Umbilical.
8. Intussusception	Ventral.
9. Stricture of Intestines	7. Constipation. 9. Strict. csophagus
11 Stomach Disease he	11. Dyspepsia. Pyrosis. Gastralgia.
12. Pancreas Diseases, &c.	Gastralgia.
13. Hepatitis	Hæmatemesis. Melæna.
14. Jaundice	Hæmorrholds.
15. Liver Disease, &c	14. Gall-stones. 15. Cirrhosis.
16. Spleen Disease, &c	I. Childell.
ORDER 5 Urinary Organs.	
III. 5.—1. Nephritis (Bright's Dis., &c.)	III. 5 1. Albuminuria.
2. Ischuria	III. 5.—1. Albuminuria. 5. Cystirrhœa. 6. Diuresis.
8. Diabetes	Hæmaturia.
4. Calculus (Gravel, &c.)	Dis. of prostate. Dis. of bladder.
5. Cystitis	Dis. of bisader.
6. Kidney Disease, &c	
Order 6. — Generative Organs.	}
III. 6.—1. Ovarian Dropsy	III. 6.—1. Ovarian tumor.
2. Disease of Uterus, &c.	2. Hysteritis, Metritis (inflammation of womb).
	Uterine tumor.
	Polypus uteri. Orchitis.
	Orchitis. Hydrocele.
ORDER 7. — Organs of Locomotion.	•
III. 7. — 1. Arthritis	III. 7.—1. Ostitis. Periostitis.
2. Joint Disease, &c	2. Fragilitas ossium. Mollities ossium.
t e e e e e e e e e e e e e e e e e e e	Carles. Necrosis.
	Exostosis.
	Hip disease. Spine disease.
	Spill disease.

CAUSES OF DEATH - (CONTINUED).

TABULAR LIST.	SUPPLEMENTAL LIST.
CLASS III. — (CONTINUED). ORDER 8. — Integumentary System. III. 8. — 1. Phlegmon	III. 8.—1. Abscess (part not stated). Boll. Whitlow. 3. Roseols. Utricaris. Eczems. Herpes. Pemphigus. Ecthyms. Impetigo. Psoriasis, &c.
CLASS IV. — DEVELOPMENTAL DISEASES. ORDER 1. — Developmental Diseases of Children.	
IV. 1.—1. Still-born	IV. 1.—2. Atelectasis. 5. Auus imperforatus. Cleft palate. Idiocy.
ORDER 2.—Developmental Diseases of Women. IV. 2.—1. Paramenia 2. Childbirth. (See Metria I. 1.—9.)	IV. 2.—1. Chlorosis. Olimacteria. Menorrhagia. 2. Miscarriage. Abortion. Puerperal mania,
ORDER 8. — Developmental Diseases of Old People. IV. 3. — 1. Old Age	Puerperal convulsions. Phiegmasis dolens. Casarian operation. Extra-uterine fectation. Flooding. Retention of placenta. Presentation of placenta. Deformed pelvis
ORDER 4. — Diseases of Nutrition. IV. 4. — 1. Atrophy and Debility	Breast abscess.
CLASS V.—Violent Deaths.	
ORDER 1.— Accident or Negligence. V. 1.—1. Fractures and Contusions 2. Wounds 3. Burns and Scalds 4. Poison 5. Drowning 6. Suffocation 7. Otherwise* 8. "Casualty"†	V. I.—1. Railroad accidents. 5. Lost at sea. 6. Asphyxia. Strangulation. 7. Exposure. Cold water. Frozen. Heat. Lightning. Surgical operation.

CAUSES OF DEATH - (CONCLUDED).

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TABULAR LIST.			SUPPLEMENTAL LIST.
CLASS V. — (CONTINUED).			
ORDER 2. — Infanticide.			
ORDER 3. — Homicide.			
ORDER 4. — Suicide.			
V. 4. — 1. Wounds		.	
2. Poison			
3. Drowning	•	.	
4. Hanging			•
5. Otherwise	•	•	
ORDER 5. — Execution.			
V. 5. — 1. Hanging	•		
Sudden, cause unascertained	•	•	

Note. — Cases of "infantile fever" are classed with typhoid, relapsing and other continued fevers, under one name, "typhoid fever;" of "rheumatic fever," with "rheumatism;" of "hemorrhage," and "abscess," with the diseases of the part affected (if that is stated, as it abould always be, in the return). As "atricture of the urethra" is almost invariably the result of gonorrhoga, it is classed as I. 2.—2. All cases of death returned "unknown," or of which the cause is not stated, and cases of "tumor," "inflammation," or "hemorrhage," of which the locality or part affected is not mentioned, are classed as unknown, and therefore not included in the foregoing table of specified causes.







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Commonwealth of Massachusetts.

BUREAU OF STATISTICS OF LABOR, CLAFLIN BUILDING, 20 BEACON STREET, BOSTON, May 29, 1897.

TO THE HONORABLE SENATE AND HOUSE OF REPRESENTATIVES:

I have the honor to transmit, herewith, the Twenty-seventh Annual Report of the Bureau of Statistics of Labor. This report consists of three parts, the first relating to the Social and Industrial Condition of Barnstable County, and especially to the immigration of Western Islanders into said County, being the results of an inquiry made by direction of the legislature; the second containing information as to wages in continuation of a plan of presentation begun in the Report for 1895; and the third containing the labor chronology for the year, with a resume of labor legislation.

I desire to record my acknowledgments to Mr. Charles F. Pidgin, Chief Clerk, who has had direct charge of the clerical work on this volume, and also to Mr. Frank H. Drown, Second Clerk. The faithful services of both of these officers entitle them to recognition.

Very respectfully,

HORACE G. WADLIN, Chief.



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Very respectfully,

HORACE G. WADLIN, Chief.

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PART I.

SOCIAL AND INDUSTRIAL CHANGES

IN THE

COUNTY OF BARNSTABLE.

The following Memorial was presented to the legislature during the Session of 1896:

"The undersigned respectfully memorializes the Honorable Senate and House of Representatives of Massachusetts:—

To take such action as will enable the Bureau of Labor of the State to make inquiries (statistical and otherwise) during the current year, concerning the immigration of Western Islanders into Barnstable County, etc.

Your memorialist is moved to make this request by his sense of the great value to the State and Nation of this county as a nursery for seamen; and inasmuch as its original inhabitants are leaving it in such numbers as to give just occasion for alarm in the above respect, I ask that the above inquiry may be as comprehensive as it is possible to make it.

To this end I respectfully suggest that the capacity of the Cape for gardening may be investigated: First in its immediate relation to the support of families, and next by drainage and irrigation, that opportunity may be gained for the culture of the cranberry and other valuable crops suitable to the soil and climate.

I respectfully call your attention in the above connection to the fact that the Commonwealth still holds possession of an extensive tract of unoccupied territory in the town limits of Provincetown. Large portions of this reservation admit, it is thought, of cultivation by means of terraces upon its hill-sides, the application of loam from its low places, and water from its ponds.

In view of the precarious nature of fishing as a means for the support of families, I ask that the investigation of the Bureau of Labor be conducted with the desire to ascertain how far the functions of the State can be exercised in the aid of the people in the reclamation and adaptation of land for the ends herein set forth."

This memorial was presented by Edward H. Rogers, Esq., of Chelsea, a former resident upon Cape Cod. It was supported by a petition in its aid from the Brotherhood of the Carpenter, of Boston, an organization within the Protestant Episcopal Church. It was duly referred to the proper committee, and, after a hearing, a resolve was reported and finally passed, directing the Bureau to make the desired investigation.

In reporting under this resolve it is not necessary to rely entirely upon statistical presentations, nor can the purpose of the memorial be fully met by a mere array of figures. Nevertheless, the present industrial condition of the towns in Barnstable County, and the exact composition of the population, as affected by immigration, especially of Western Islanders, may be most graphically shown by comparing the data derived from the Decennial Censuses of 1885 and 1895. Before proceeding to such textual comments as seem necessary, a series of tables is therefore presented which may serve as the foundation for comment.

The first table exhibits the population of the county, by towns, at the dates of seven successive censuses, beginning with 1865.

THE COL	NTY.	. AND		POPULATION: 1865-1896											
	WX8.			1865	1870	1875	1880	1885	1890	1895					
Тне С	oun	ITY.		34,610	32,774	32,144	31,897	29,845	29,172	27,654					
Barnstable,				4,928	4,793	4,302	4,242	4,050	4,023	4,055					
Bourne,*				-	_	_	-	1,363	1,442	1,580					
Brewster,			•	1,456	1,259	1,219	1,144	934	1,003	901					
Chatham,				2,624	2,411	2,274	2,250	2,028	1,954	1,809					
Dennis, .				3,592	3,269	3,369	3,288	2,923	2,899	2,545					
Eastham,				757	668	639	692	638	602	476					
Falmouth,				2,283	2,237	2,211	2,422	2,520	2,567	2,655					
Harwich,				3,540	3,080	3,355	3,265	2,783	2,734	2,532					
Mashpee,†				-	348	278	346	311	298	330					
Orleans, .				1,585	1,323	1,373	1,294	1,176	1,219	1,198					
Provincetow	n,			3,472	3,865	4,357	4,346	4,480	4,642	4,555					
Sandwich,				4,158	3,694	3,417	3,543	2,124	1,819	1,580					
Truro, .				1,447	1,269	1,098	1,017	972	919	815					
Wellfleet,				2,296	2,135	1,988	1,875	1,687	1,291	968					
Yarmouth,		•		2,472	2,423	2,264	2,173	1,856	1,760	1,655					

^{*} Established April 2, 1884, from a part of Sandwich. † Established May 28, 1870.

In 1895, as compared with 1865, a decline is shown in the county as a whole, and in every town except Falmouth and Provincetown. Falmouth has increased during this time from 2,283 to 2,655; and Provincetown has increased from 3,472 to 4,555. Part of the loss in Sandwich is due to the incorporation of the town of Bourne out of its territory in 1884. It is a curious coincidence that the population of Sandwich and Bourne was identical (1,580) in 1895. The following presentation shows which towns have increased or decreased at specified census dates as compared with preceding enumeration:

			- 1	Increase (+), or Decrease (-), by comparison of -												
THE COU	HTY,	AND		1865 with 1860	1870 with 1865	1875 with 1870	1880 with 1875	1885 with 1880	1890 with 1885	1895 with 1890						
Тив С	OUN	TY.		_	_	_	_	_	_	_						
Barnstable,				_	_		_	_	_	+						
Bourne, .				•	•	•	•	•	+	+						
Brewster,	•			_	_	_	_	_	+	-						
Chatham,	•			_	-	_	_	_	_	-						
Dennis, .	•			_	_	+	_	<u> </u>	-	! –						
Bastham,	•			_	_	_	+	_	_	-						
Falmouth,		•			_	_	+	+	+	+						
Harwich,				+	_	+		_	_							
Mashpee,	•	•		+	+	_	+	_	_	+						
Orleans, .				- 4	_	+	_	_	+	_						
Provincetow	n,	•		+ `	+	+	_	+	+	_						
Sandwich,				_	_	_	+	_	_	_						
Truro, .				_	_	_	-	_	_	_						
Wellfleet,				_	_	_	-	_	-	_						
Yarmouth,				_		_	_	_	_	_						

^{*} Established April 2, 1884, from a part of Sandwich.

The county, as a whole, has shown a decline at each enumeration, beginning with 1865. Falmouth shows a loss under the enumerations in 1865, 1870, and 1875, and a gain under each subsequent enumeration. Provincetown, the other town which shows a gain in 1895 as compared with 1865, shows a slight loss as compared with 1890; a loss in 1880 as compared with 1875; and a gain under every other enumeration. Chatham, Truro, Wellfleet, and Yarmouth show a loss under each enumeration, beginning with 1865; Barnstable,

[†] Established May 28, 1870.

a loss until that of 1895, which shows a very slight increase over 1890; Brewster, a loss, except in 1890 as compared with 1885; Dennis, a loss, except in 1875 as compared with 1870; Eastham, a loss, except in 1880 as compared with 1875; Mashpee, a loss, except in 1880 as compared with 1875, and in 1895 as compared with 1870, and in 1890 as compared with 1875 as compared with 1870, and in 1890 as compared with 1885; and Sandwich, a loss, except in 1880 as compared with 1875; this loss, as stated, being partly due to the incorporation of the new town of Bourne, which shows a slight but continuous gain since its establishment in 1884. Prior to 1865, however, a gain had been shown from the earliest years, although slight in 1855 and 1860, as will appear from the following statement, which also shows the loss subsequent to 1860:

YE	ARS A	ND C	ENSUS) .		- -		County Population	Increase (+), or Decrease (-), as Compared with Previous Census
1765 (Provincial) .	. •	•						12,127	_
1776 (Provincial) .	٠.			٠.			.	15,546	+3,419
1790 (United States)							.	17,354	+1,808
1800 (United States)							.	19,293	+1,939
1810 (United States)					•		.	22,211	+2,918
1820 (United States)							.	24,026	+1,815
1830 (United States)				•			•	28,514	+4,488
1840 (United States)								32,548	+4,034
1850 (United States)							.	85,276	+2,728
1855 (State)							.	35,442	+ 166
1860 (United States)							.	35,990	+ 548
1865 (State)								34,610	-1,380
1870 (United States)								32,774	-1,836
1875 (State)							.	32,144	630
1880 (United States)					•		.	31,897	- 247
1885 (State)							.	29,845	-2,052
1890 (United States)			•					29,172	- 673
1895 (State)							.	27,654	-1,518

The final loss or gain in population for the entire thirty years, with percentages, is shown in the following table:

Тня	Cor	MTT.	AND 1	OWN			Popul	HOITA	INCREASE (+), OR DECREASE (-), IN 1895 AS COMPARED WITH 1865		
							1865	1895	Number	Percentages	
	Тн	B Co	UNTY				34,610	27,654	6,956	-20.10	
Barnstable,							4,928	4,055	- 873	-17.72	
Bourne,*							_	1,580	+1,580	- .	
Brewster,	,•					.	1,456	901	555	-38.12	
Chatham,	•					.	2,624	1,809	815	-31.06	
Dennis,							3,592	2,545	1,047	-29.15	
Eastham,							757	476	281	-37.12	
Falmouth,		•					2,283	2,655	+ 872	+16.29	
Harwich,							3,540	2,532	1,008	28.47	
Mashpee,†		•					-	330	+ 330	-	
Orleans,				•	•		1,585	1,198	— 887	-24.42	
Provinceto	vn,						3,472	4,555	+1,083	+31.19	
Sandwich,				•			4,158	1,580	-2,578	-62.00	
Truro, .		•			•		1,447	815	— 632	-43.68	
Wellfleet,							2,296	968	-1,328	-57.84	
Yarmouth,			•	•			2,472	1,655	- 817	-33.05	

Established April 2, 1884, from a part of Sandwich. The loss upon the territory of Sandwich and Bourne together is 998 since 1865, or 24 per cent.

† Established May 28, 1870.

As a whole, the county shows a loss of population amounting to 20.10 per cent in the thirty years, and while Falmouth and Provincetown have gained 16.29 per cent and 31.19 per cent, respectively, during this time, many of the towns show a loss much greater than that of the county in the aggregate. For example, Truro and Wellfleet, which, next to Provincetown, occupy the outer part of the Cape, have lost, respectively, 43.68 per cent and 57.84 per cent. No other towns show so great a loss as this except Sandwich, which, as a separate municipality, has lost 62 per cent; but this is largely due to the incorporation of Bourne, inasmuch as the loss upon the territory occupied by Sandwich and Bourne together is but 24 per cent.

We now pass to an analysis of the present population. The table at the top of page eight exhibits a classification of native and foreign born with percentages of same.

				j		POPULATION		Perce	NTAGES
THE COUNT	Y, A	ND TO	WHS.		Native Born	Foreign Born	Totals	Native Born	Foreign Born
Тив	Cot	NTY.			24,651	3,003	27,654	89.14	10.86
Barnstable,					3,822	233	4,055	94.25	5.75
Bourne, .					1,486	94	1,580	94.05	5.95
Brewster, .				٠.	831	70	901	92.23	7.77
Chatham,				.	1,764	45	1,809	97.51	2.49
Dennis, .				.	2,436	109	2,545	95.72	4.28
Eastham, .		•		.	462	14	476	97.06	2.94
Falmouth,		•		.	2,284	871	2,655	86.03	13.97
Harwich, .					2,370	162	2,532	93.60	6.40
Mashpee, .				.	319	11	830	96.67	8.33
Orleans, .				.	1,132	66	1,198	94.49	5.51
Provincete vn	, .			.	3,228	1,327	4,555	70.87	29.13
Sandwich,				.	1,344	236	1,580	85.06	14.94
Truro, .					690	125	815	84.66	15.34
Wellfleet, .					900	68	968	92.98	7.02
Yarmouth,					1,583	72	1,655	95.65	4.35

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods.

	PLACE OF BIRTH.					Males			
						Under 19	90 to 49	50 and Over	Totals
1	BARNSTABLE					629	783	532	1,944
2	Native Born.					618	726	497	1,841
8	Massachusetts,	,				593	682	4 51	1,726
4	Not specified,					-	1	-	1
5	Other towns,					126	247	155	528
6	Town named,					467	484	296	1,197
7	Other States,			•		25	44	46	115
8	Foreign Born	١.				11	57	35	103
9	American Citizens (born al	bro	ad),			-	-	-	-
10	American Citizens (born at	80	B.),	•		-	-	-	-
11	Austria,				•	-	1	-	1
12	British Possessions, Other		•			1	2	-	8
13	Canada (English), .					1	1	-	2
14	China,				•	-	1	1	2
15	England,					2	9	8	19
16	France,		•		•	-	3	-	3
17	Germany,					-	1	1	2
18	Ireland,					3	7	15	25
19	Italy,					-	1	1	2
20	New Brunswick, .	•	•	•		-	-	1	1

This is an externely interesting table. When we remember that Massachusetts has for many years been open to immigration, and that the development of her industries, and the great increase of population that has accompanied this development, have largely increased the proportion of foreign-born persons within the Commonwealth, it is of no slight significance that we find here an entire county which is almost unaffected by the change. Only 10.86 per cent of its population is due to immigration from abroad. If no other proof appeared, this, of itself, shows that the influences which have contributed to the development of our industrial resources, and which have enormously increased the wealth and population of the State, have been practically inoperative in Barnstable County. Falmouth and Provincetown, the two towns which have made some growth, together with Sandwich and Truro. have the largest percentages of foreign born. The next table classifies both native and foreign born by place of birth, sex. and age periods.

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods.

		SEXES	Вотн			ALB6	FEMALES						
otals	Tota	50 and Over	20 to 49	Under 19	Totals	50 and Over	30 to 49	nder 19					
,055	4,0	1,169	1,683	1,203	2,111	637	900	574					
,822	8,8	1,101	1,542	1,179	1,981	604	816	561					
,530	3,5	994	1,405	1,131	1,804	543	723	538					
3		1	2	_	2	1	1	-					
,119	1,1	855	519	245	591	200	272	119					
408	2,4	638	884	886	1,211	342	450	419					
292	2	107	137	48	177	61	93	23					
233	2	68	141	24	130	33	84	13					
3	ļ	1	1	1	3	1	1	1					
1			1	-	1	-	1	-					
1]	_	1	_	-	-	-	-					
3	Į.	-	2	1	-	-	-	-					
10	:		9	1	8	-	8	-					
2		1	1	-	-	-	-	-					
3 8	;	13	22	8	19	5	13	1					
4		-	4	-	1	-	1	-					
2	Ì	1	1	_	-	-	-	-					
58		36	19	8	83	21	12	-					
2		1	1	-	-	-	-	-					
13	1 :	3	10	_	12	2	10	-					

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

						Ма	LES	
	PLACE OF BIRTH	•			Under 19	20 to 49	50 and Over	Totals
	Barnstable — C	on.						
	Foreign Born — (Con.						
1	Norway,				-	_	1	1
2	Nova Scotia,				8	6	2	11
3	Poland,				_	1	_	1
4	Portugal,				_	6	8	9
5	Not specified,				_	_	-	-
6	Western Islands				_	6	8	9
7	Prince Edward Island.				_	1	_	1
8	Russia				1	6	-	7
9	Sandwich Islands (Hawaii)				_	1	-	1
10	Scotland,				_	3	1	4
11	Spain				_	_	_	_
12	Sweden,				_	6	1	7
13	West Indies,				_	1	_	1
		•	-	·		_		_
14	Bourne.				257	831	184	772
15	Native Born.				251	300	176	727
16	Massachusetts				236	257	159	652
17	Not specified.				1	6	8	10
18	Other towns,				46	114	53	213
19	Town named.				189	137 °	103	429
20	Other States,				15	43	17	75
	•		-	·			,	
21	Foreign Born.				6	81	8	45
22	American Citizens (born ab	road)	, .	•	1	_	-	1
23	At sea,	•	•	•	-	1	-	1
24	Canada,	•	•	•	-	-	-	-
25	English,	•	•	•	-	-	-	-
26	French,	•	•	•	-	-	-	
27	England,	•	•	•	-	1	4	5
28	Germany,	•	•	•	-	-	-	-
29	Ireland,	•	•	•	1	3	1	5
30	New Brunswick,	•	•	•	-	4	-	4
31	Newfoundland,	•	•	•	-	-	-	-
32	Norway,	•	• .	•	-	1	1	2
33	Nova Scotia,	•	•	•	3	9	2	14
34	Portugal,	•	•		-	1	-	1
35	Not specified,	•	•	•	-	1	-	1
86	Western Islands,	•	•	•	-	-	-	-
37	Prince Edward Island, .	•	•	•	-	1	-	1
38	Russia,	•		•	-	6	-	6
39	Scotland,			•	1	1	-	2
_								

11

No. 15.]

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

			(ontinued				
	Frm	ALES			Вотн	Sexes		
Under 19	90 to 49	50 and Over	Totals	Under 19	20 to 49	50 and Over	Totals	_
-	-	-	-	-	-	1	1	1
5	19	1	25	8	25	8	36	2
1	-	-	1	1	1	-	2	3
-	5	-	5		11	8	14	4
-	1	-	1	-	1		1	5
-	4	-	4	-	10	8	13	6
-	1	-	1	-	2	-	2	7
3	4	-	7	4	10	-	14	8
-	-	-	-	-	1	-	1	9
1	8	1	5	1	6	2	9	10
-	-	1	1	-	-	1	1	11
-	6	1	7	-	12	2	14	12
1	-	-	1	1	1	-	2	13
263	342	203	808	520	673	387	1,580	14
254	308	197	759	506	608	373	1,486	15
240	278	175	693	476	535	834	1,345	16
1	7	8	11	2	13	6	21	17
81	153	77	311	127	267	130	524	18 ·
158	118	95	371	847	255	198	800	19
14	30	22	66	29	73	39	141	20
9	84	6	49	15	65	14	94	21
-	1	-	1	1	1	-	2	22
-	-	-	-	-	1	-	1	23
1	3	-	4	1	8	-	4	24
-	2	-	2	-	2	-	2	25
1	1	-	2	1	1	-	2	26
1	8	-	4	1	4	4	9	27
-	1	-	1	-	1	-	1	28
1	8	2	11	2	11	8	16	29
-	1	1	2	-	5	1	6	30
-	1	-	1	 -	1	-	1	31
-	1	-	1	-	2	1	8	32
1	6	8	10	4	15	5	24	83
1	1	-	2	1	. 2	-	8	34
1	1	-	2	1	2	-	8	35
-	-	-	-	} -	-	-	-	36
-	1	-	1	-	2	-	2	87
4	8	-	7	4	9	-	18	88
-	1	-	1	1	2	-	3	39
			.1					

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

		1	MA	LKS	
	PLACE OF BIRTH.	Under 19	20 to 49	59 and Over	Totals
	Bourne - Con.				
	Foreign Born — Con.				
1	Sweden,	-	2	-	2
2	Wales,	-	1	-	1
3	Brewster.	147	156	134	437
4	Native Born.	146	141	119	406
5	Massachusetts,	146	132	115	393
6	Other towns,	18	32	55	105
7	Town named,	128	100	60	288
8	Other States,	_	9	4	13
9	•		18	15	31
10	Foreign Born.	1	15	1	1
11	British Possessions, Other	-	-	2	2
12	•	-	1	-	1
13	Germany,	-	2	9	12
14	N D	1	2 2	9	12
15	•	-	1	-	1
16	Norway,	-	_	-	3
17	Nova Scotia,	-	2	1 2	6
18	Portugal,	-	4	2	0
19	Not specified,	_	-	_	6
20	Western Islands,	-	4	. 2	0
21	·	-	-	-	-
22	Spain,	-	2	-	2
23		-	_	-	_
23	West Indies,	-	1	-	1
24	Chatham.	280	384	234	898
25	Native Born.	278	378	222	878
26	Massachusetts,	267	356	216	839
27	Other towns,	47	94	56	197
28	Town named,	220	262	160	642
29	Other States,	11	22	6	39
30	Foreign Born.	2	6	12	20
31	American Citizens (born abroad),	-	-	2	2
32	British Possessions, Other	-	-	1	1
33	Canada,	- .	1	-	1
34	English,	-	-	-	-
35	French,	-	1	-	1
36	Denmark,	-	-	1	1
87	England,	2	-	5	7
38	9 ,	1	II.	1	

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

-			•	Continued				
		Sexes	Вотн			ALES	Fex	
_	Totals	50 and Over	20 to 49	Under 19	Totals	50 and Over	29 to 49	Under 19
	5	-	5	_	. 8	-	3	-
:	1	-	1	-	-	-	-	-
	901	278	331	292	464	144	175.	145
.	831	240	301	290	425	121	160	144
	790	226	283	281	397	111	151	135
- -	246	112	96	38	141	57	64	20
- -	544	114	187	243	256	54	87	115
	41	14	18	9	28	10	9	9
	70	38	30	2	39	28	15	1
1	1	1	-	_	_	_	_	-
1	7	6	1	-	5	4	1	-
1	8	-	2	1	2	-	1	1
- 1	29	28	5	1	17	14	8	-
- 1	5	-	5	-	3	-	3	-
- 1	1	-	1	-	-	-	-	-
- 1	8	3	5	-	5	2	3	-
	8	3	5	- :	2	1	1	-
1 -	-	-	- 1	-	-	-	-	-
1 -	8 2	8	5	-	2	1	1	-
1 -	1	1 1	1	-	2	1	1	-
- 1	4	•	- 4	-	1 2	1	2	-
- 1 -	1		1	_		_	-	-
-	•	-	1	_	_			_
2	1,809	519 ,	768	522	911	285	384	242
	1,764	498	. 748	518	886	276	370	240
	1,673	480	700	493	834	264	344	226
	423	150	187	86	226	94	93	39
- 1	1,250	330	513	407	608	170	251	187
- 1	91	18	48	25	52	12	26	14
	45	21	20	4	25	9	14	2
1	2	2	-	-	-	-	-	-
- 1	1	1	-	-	-	-	-	-
ı	2	-	2	-	1	-	1	-
3	1	-	1	-	1	_	1	-
3	1	1	1	-	-	_		_
3	17	9	4	4	- 10	4	4	2
ı	5	3	2	*	3	2	1	_
		•		-	"		l	

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

			Ma	LES		
	PLACE OF BIRTH.		Under 19	90 to 49	50 and Over	Totals
	CHATHAM — Con.					
	Foreign Born — Con.					
1	New Brunswick,		-	1	-	1
2	Newfoundland,		-	-	-	-
3	Nova Scotia,		-	-	1	1
4	Portugal,		-	-	1	1
5		• •	-	-	-	-
6	Western Islands,	• •	-	-	1	1
7	Prince Edward Island,		-	2	-	2
8	Scotland,		-	-	-	-
9	Wales,		-	1	-	1
10	Dennis.		371	431	362	1,164
11	Native Born.		366	414	335	1,115
12	Massachusetts,		359	395	325	1,079
13	Other towns,		53	101	86	240
14			306	294	239	839
15	Other States,		7	19	10	36
16	Warrat and Barra		5	17	27	49
17	Foreign Born.		-	11	21	70
18	American Citizens (born abroad),		1	-	1	2
19	, , , , , , , , , , , , , , , , , , , ,	• •	1 .	_	_	_
20	/	• •	2	5	5	12
21	Canada,	• •	2	4	5	11
22	English,	• •		1 1		1
23	French,		-	1 1	ī	1
24 24		• •	-	[5	5
25	England,	• •	-	Ī	1	1
26	1	• •	-	3	1	4
20 27	Germany,	• •	_	1 -	3	8
-	Ireland,	• •	-	-	1 3	1
28 29	Norway,	• •	2	-	7	1 16
	2020-0	• •		7	1	
30 31	Not specified,		2	7	7	16
	Western Islands,	• •	-	-	:	
32	Scotland,	• •	-	-	1	1
33	South America,	• •	-		-	-
34	Sweden,	• •	-	1	2	8
35	Eastham.		65	93	76	234
36	Native Born.		65	92	78	230
37	Massachusetts,		65	90	72	227
38	Other towns,		15	29	26	70
39	Town named,		50	61	46	157
40	Other States,		-	2	1	8

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

		SEXES	Вотн			FEMALES 50 and						
	Totals	50 and Over	20 to 49	Under 19	Totals	50 and Over	90 to 49	Under 19				
1	2	-	2	_	1	-	1	-				
2	1	-	1	-	1	-	1	-				
8	7	2	5	-	6	1	5	-				
4	1	1	-	-	-	-	-	-				
0	-	-	-	-	-	-	-	-				
6	1	1	-	-	-	-	-	-				
7	4	1	3	-	2	1	1	-				
8	1	1	- 1	- 1	1	1	-	-				
1	_	-		-	-	-	-	-				
10	2,545	763	992	790	1,381	401	561	419				
11	- 2,436	720	937	779	1,321	385	523	413				
12	2,321	686	880	755	1,242	361	485	396				
18	615	229	262	124	375	143	161	71				
14	1,706	457	618	631	867	218	324	325				
15	115	34	57	24	79	24	38	17				
16	109	43	55	11	60	16	38	6				
17	3	-	-	8	8	-	-	3				
18	2	1	-	1	-	-	-	-				
19	2	. 1	1	-	2	1	1	-				
20	33	6	23	4	21	1	18	2				
21	32	6	22	4	21	1	18	2				
22	1	-	1	- 1	-	-	-	-				
23	1	1	-	-	-	-		-				
24	13	7	6	-	8	2	6	-				
25	1	-	1	-	-	-	-	-				
26	5	1	4	-	1	-	1	-				
27 28	15 1	11 1	3	1	12	8	3	1				
29	26	10	14	_ 2	10	8	7	-				
30	25	9	14	2	9	2	7	_				
31	1	1	-		1	1		_				
32	3	2	1		2	1	1	_				
33	1	_	1	_	1		1	_				
34	3	2	1	_	_	_	_	-				
38	476	158	189	129	242	82	96	64				
36	462	153	184	125	232	80	92	60				
37	441	148	170	123	214	76	80	- 58				
38	144	54	62	28	74	28	33	13				
38	297	94	108	95	140	48	47	45				
40	21	5	14	2	18	4	12	2				

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

			Ма	LES			
	PLACE OF BIRTH.			Under 19	90 to 49	50 and Over	Totals
	Eastham — Con.						
1	For e ign Born.			-	1	3	4
2	Canada (English),	•	•	-	-	-	-
8	England,	•	•	-	-	2	2
4	New Brunswick,	•	•	-	-	-	-
5	Nova Scotia,	•	•	-	-	1	1
6	Portugal,	•	•	-	1	-	1
7	Not specified,	•	•	-	-	-	1
8	Western Islands,	•	•	-	1	-	1
9	West Indies,	•	•	-	-	-	-
10	Falmouth.			414	568	311	1,283
11	Native Born.			896	424	291	1,111
12	Massachusetts,	•	•	367	878	265	1,010
13	Not specified,	•	•	1	-	-	1
14	Other towns,	•	•	77	183	72	332
15	Town named,	•		289	195	193	677
16	Other States,		•	29	46	26	101
17	Foreign Born.			18	134	20	172
18	American Citizens (born abroad),	•	•	1	4	-	5
19	American Citizens (born at sea),	•	•	-	2	-	2
20	British Possessions, Other	•	•	-	1	-	1
21	Canada,	•	•	8	6	1	10
22	English,	•	•	1	8	1	5
23	French,	•	•	2	8	-	5
24	China,	•	•	-	1	-	1
25	Denmark,	•	•	-	8	-	3
26	England,	•	•	-	9	8	12
27	France,	•	•	-	-	-	-
28	Germany,	•	•	-	5	-	5
29	Ireland,	•	•	-	33	13	46
30	Italy,	•	•	-	1		1
31	New Brunswick,	•	•	-	9	-	9
32 33	Newfoundland,	•	•	2	1	-	1 4
84		•	•	Z	2	-	1
35	* * * * * * * * * * * * * * * * * * * *	•	•	12	1 89	2	53
36	Portugal,	•	•	12	3	Z	3
37	Not specified,	•	•	12	3 36	2	50 50
38	Western Islands,	•	•	12	36 2	2	2
39	m	•	•	-	2	-	2
40		•	•	-	2	-	2
41		•	•	-	2 10	-	10
41	Sweden,	•	•	-	10	-	10

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

		BEXES	Вотн			ALKS	Fen.	
tals	Total	59 and Over	80 to 49	Under 19	Totals	50 and Over	90 to 49	Under 19
14	1	5	5	4	10	2	4	4
2	:	-	1	1	2	-	1	1
4		2	2	-	2	-	2	-
1		1	-	-	1	1	-	-
8		2	1	-	2	1	1	-
1		-	1	-	-	-	-	-
-		-	-	-	-	-	-	-
1		-	1	_	-	-	-	- 3
8		-	-	3	3	-	-	ð
655	2 65	647	1,165	843	1,372	336	607	429
,284	1 '	604	880	800	1,173	313	456	404
,072	2,07	549	776	747	1,062	284	398	380
1		-	-	1	-	-	-	-
746		182	387	177	414	110	204	100
,325	1	367	389	569	648	174	194	280
212	21	55	104	53	111	29	58	24
37 1	. 87	43	285	43	199	23	151	25
7		-	5	. 2	2	-	1	1
2		-	2	-	-	-	-	-
1		-	1	-	-	-	-	-
26	1	2	17	7	16	1	11	4
18]]	2	11	5	13	1	8	4
8		-	6	2	8	-	8	-
1		-	1	-	-	-	-	-
5	١,	-	4	1	2	-	1	1
27 2	'	6	21 2	-	15 2	3	12 2	-
9		1	8	_	4	1	3	-
116	١,,	23	92	1	70	10	59	1
1	1 **	_	1	_		10	"_	_
12	١,	2	10	_	3	2	ī	•
1		_	1	_		[_	_
34	8	2	22	10	30	2	20	8
2		-	1	1	1	-	-	1
81	8	3	59	19	28	1	20	7
7		1	6	-	- 4	1	8	-
74	:	2	53	19	24	-	17	7
5		-	4	1	3	-	2	1
2		-	2	-	-		-	-
9		3	6	-	7	3	4	-
26	1	-	25	1	16	-	15	1

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

		ļ	MA	LES	
	PLACE OF BIFTE.	Under 19	T	50 and Over	Totals
	FALMOUTH — Con.				
	Foreign Born — Con.	}			
1	Wales,	-	1	-	1
2 j	West Indies,	-	-	1	1
8	HARWICH.	402	464	387	1,253
4	Native Born.	389	425	367	1.181
5	Massachusetts,	374	411	347	1,132
6	Other towns,	45	87	79	211
7	Town named,	329	324	268	921
8	Other States,	15	14	20	49
9	·	13	39	20	72
10	Foreign Born. Canada (English),	13	39	20	12
11	m 41	-	3	1	4
12	9 .	2		1	2
18	France,	•	1	4	5
14	Ireland,	_		_	Ð
15	New Brunswick,	1	- 1	2	4
16		10	34	12	56
	Portugal,		1 .		50
17	Not specified,	-	-	12	-
18	Western Islands,	10	34	12	56 1
19	Scotland,		- !	1	1
20	Mashpee.	80	70	28	178
21	Native Born.	79	67	27	178
22	Massachusetts,	76	62	21	159
23	Other towns,	6	6	8	20
24	Town named,	70	· 56	13	139
25	Other States,	3	5	6	14
26	Foreign Born.	1 1	3	1	5
27	American Citizens (born abroad),	1	_	_	1
28	Canada (English),	_	_	_	_
29	England,	_	_ :	_	_
30	Ireland,	_ !	1	_	1
31	Norway,	_	ī	_	1
32	Russia,	_	i	_,	î
83	Scotland,	_ 1	_	_	_
34	West Indies,	-	-	1	1
35	•	169	201	189	559
36	ORLEANS. Native Born.	169	201 186	189	527
36 37		162	173	166	627 488
	Massachusetts,				
38	Other towns,	41	83	36	160
39	Town named,	108	90	130	328
40	Other States,	13	13	13	39

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

	Frx	ALES .		1	Вотн	SEXES		İ
Under 19	20 to 49	50 and Over	Totals	Under 19	90 to 49	50 and Over	Totals	
-	_	-	_	-	1	-	1	1
-	-	: -	-	-	-	1	1	2
349	529	401	1,279	751	993	788	2,532	3
335	476	378	1,189	724	901	745	2,370	4
323	448	369	1,140	697	859	716	2,272	5
51	127	104	282	96	214	183	493	6
272	321	265	858	601	645	533	1,779	7
12	28	9	49	27	42	29	98	8
14	53	23	90	27	92	43	162	9
-	1	2	3	_	1	2	3	10
-	5	8	8	-	8	4	12	11
-	-	-	-	2	-	-	2	12
-	5	7	12	-	6	11	17	13
-	1	2	3	-	1	2	3	14
1	7	4	12	2	8	6	16	15
13	33	5	51	23	67	17	107	16
-	-	-	-	-	-	-	-	17
13	33	5	51	23	67	17	107	18
-	1	-	1	∥ -	1	1	2	19
57	60	35	152	137	130	63	330	20
57	55	34	146	136	122	61	319	21
57	52	31	140	133	114	52	299	22
5	10	5	20	11	16	13	40	23
52	42	26	120	122	98	39	259	24
-	3	3	6	3	8	9	20	25
_	5	1	6	1	8	2	11	26
-	-	-	-	1	-	-	1	27
-	2	1	3	-	2	1	3	28
-	1	-	1	-	1	i -	1	29
-	1	-	1	-	2	-	2	30
-	-	-	-	-	1	-	1	31
-	-	-	-	-	1	-	1	32
-	1	-	1	-	1	-	1	33
-	-	-	-	-	-	1	1	34
163	253	221	639	334	454	410	1,198	35
158	236	211	605	320	422	390	1,132	36
149	216	200	565	298	389	366	1,053	37
48	107	79	234	89	190	115	394	38
101	109	121	331	209	199	251	659	39
9	20	11	40	22	33	24	79	40

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

	•			Ма	LES	
	PLACE OF BIRTH.		Under 19	20 to 49	50 and Over	Totals
	Orleans — Con.					
1	Foreign Born.		7	15	10	32
2	American Citizens (born at sea),		-	-	-	_
8	British America, n. s.,		-	-	-	-
ું 4	British Possessions, Other		-	2	1	3
5	Canada (English),		-	-	-	-
6	Denmark,		-	-	2	2
7	England,			6	1	8
8	Germany,		1	-	-	1
9	Ireland,		-	4	4	8
10	New Brunswick,		-	-	-	-
11	Newfoundland,		-	-	-	-
12	Nova Scotia,		4	3	1	8
13	Prince Edward Island,	•	-	-	-	-
14	Scotland,		1	-	1	2
15	West Indies,		-	-	-	-
16	Provincetown.		806	967	442 ·	2,215
17	Native Born.		745	504	280	1,529
18	Massachusetts,		732	479	256	1,467
19	Not specified,		-	1	-	1
20	Other towns,		36	91	100	227
21	Town named,		696	387	156	1,239
22	Other States,		13	25	24	62
23	Foreign Born.		61	463	162	686
24	American Citizens (born abroad),		2	-	-	2
25	American Citizens (born at sea),		-	-	-	-
26	At sea,		- 1	-	-	-
27	British Possessions, Other		-	1	-	1
28	Canada,		12	59	38	109
29	English,		12	58	37	107
30	French,		-	1	1	2
31	China,		-	1	1	2
32	Denmark,		-	1	-	1
33	England,		-	2	6	8
34	France,		-	-	1	1
35	Germany,		-	6	1	7,
36	Ireland,		-	5	10	15
37	Newfoundland,		-	1	-	1
38	Norway,		-	3	1	4

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

			<u> </u>	onunuea				
		SEXES	Вотн			ALES	FRM	
-	Totals	50 and Over	20 to 40	Under 19	Totals	50 and Over	20 to 49	Under 19
1	66	20	82	14	34	10	17	7
2	2	_	1	1	2	_	1	i
3	1	1		_	1	1	_	_
4	3	i	2	_			_	_
- 1	2	2	_	_	2	2	_	_
	3	2	1	_	1	_	1	_
- 1	14	ī	ıı l	2	6	_	5	1
8	3	_ [1	2	2	_	1	1
- 1	13	6	6	ī	5	2	2	1
l l	2	i	1	_	2	ī	1	_
1	2	- 1	2	_	2	1	2	_
	14	3	6	5	6	2	3	1
	1	ı			1	1		
1	5	2		2	3	1	1	1
	1	*	1	1	1	1		1
19	1	-	-	1	1	-	-	1
16	4,555	930	1,937	1,688	2,340	488	970	882
	3,228	594	1,073	1,561	1,699	314	569	816
18	3,079	535	1,004	1,540	1,612	279	525	808
19	1	-	1	_	-	-	-	-
20	505	214	204	87	278	114	113	51
21	2,573	821	799	1,453	1,334	165	412	757
22	149	59	69	21	87	35	44	8
	1,327	336	864	127	641	174	401	66
1	5	-	-	5	3	-	-	3
25	1	-	- 1	1	1	-	-	1
26	2	1	1	-	2	1	1	-
	1	-	1	-	-	ľ -	-	-
28	245	88	137	20	136	50	78	8
29	243	87	136	20	136	50	78	8
30	2	1	1	-		-	-	-
31	2	1	1	-	-	-	-	-
32	2	-	2	-	1	-	1	-
33	14	9	5	-	6	3	8	-
	1	1	-	-	-	-	-	-
35	8	2	6	-	1	1	-	-
	46	36	10	-	31	26	5	-
	1		1	-	-	-	-	-
38	4	1	3	-	-	-	-	-

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

				Ma	LES	
	PLACE OF BIRTH.		Under 19	20 to 49	50 and Over	Totals
	Provincetown — Con.					
	Foreign Born - Con.					
1	Portugal,		47	362	101	510
2	Not specified.		2	5	1	8
3	Western Islands		45	357	100	502
4	Russia,		_	_	_	-
5	Scotland,		_	_	1	1
6	South America,		_	_	1	1
7	1		_	2	_	2
8	1 * *	•	_	5	_	5
9	West Indies,	Ĭ.	_	15	1	16
Ů	Wood andros,	•		10	•	20
10	Sandwich.		228	266	240	734
11	Native Born.		220	227	185	632
12	Massachusetts,		206	205	166	577
13	Not specified,		-	1	-	1
14	Other towns,		32	58	69	159
15	Town named,		174	146	97	417
16	Other States,		14	22	19	55
17	Foreign Born.		8	39	8 55	102
18			Ů	38	-	102
19		•	_	1	1	2
20		•	_	•	-	_
21	1	•	1	1	1	_
22	Canada,	•	1	1	1	3
23	English,	•		_	_	3
	French,	•	-		-	-
24	England,	•	1	7	11	19
25	France,	•	-	2	2	4
26	Germany,	•	-	2	-	2
27	Ireland,	•	-	7	30	37
28	Italy,	•	1	1	-	2
2 9	New Brunswick,	•	-	1	-	1
30	Newfoundland,	•	-	1	-	1
31	Nova Scotia,	•	3	5	4	12
3 2	Portugal,	•	-	-	-	-
3 3	Not specified,	•	-	-	-	-
34	Western Islands,	•	-	-	-	-
35	Prince Edward Island,		1	-	-	1
3 6	Russia,	•	1	7	4	12
37	Scotland,		-	-	-	_
3 8	Sweden,		-	8	2	5
39	Switzerland,		_	1	_	1

No. 15.7

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

23

			(Continued				
	Fra	ALES			Вотн	Sexes		
Under 19	39 to 49	50 and Over	Totals	Under 19	20 to 49	50 and Over	Totals	
53	307	92	452	100 -	669	193	962	1
-	1	1	2	2	6	2	10	2
53	306	91	450	98	663	191	952	3
1	_	_	1	1	_	_	1	4
-	_	1	1	_	_	2	2	5
-	1	_	1	-	1	1	2	6
-	-	_	_	-	2	-	2	7
-	_	-	-	-	5	-	5	8
-	5	-	5	-	20	1	21	9
228	354	264	846	456	620	504	1,580	10
217	289	206	712	437	516	391	1,844	111
206	261	187	654	412	466	353	1,231	12
_		10.	_	_	1	_	1	13
44	77	94	215	76	135	163	374	14
162	184	93	439	336	330	190	856	15
11	28	19	58	25	50	88	113	16
11	65	58	134	19	104	113	236	17
-	2	_	2	_	2	_	2	18
-	1	-	1	_	2	1	3	19
-	1	-	1	-	1	-	1	20
2	1	-	8	3	2	1	6	21
1	1	-	2	2	2	1	5	22
1	-	-	1	1	-	-	1	23
1	6	5	12	2	13	16	31	24
-	1	-	1	-	8	2	5	25
1	_	-	1	1	2	_	3	26
1	21	43	65	1	28	73	102	27
-	_	2	4	1	1 8	2	5	28 29
-	2 2	_ z	2		8	_ z	3	30
2	13	4	19	5	18	8	31	31
-	1	-	1	_	1		1	32
-	-	_		_		_	_	33
-	1	-	1	-	1	-	1	34
-	_	_	-	1	_	_	1	35
-	7	-	7	1	14	4	19	36
-	2	3	5	-	2	8	5	37
3	4	1	8	8	7	3	13	38
1	1	-	2	1	2	-	3	39
	L	1	_i	11	<u> </u>	1	1	

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

5	Na Massachusetts, .	Tru		TH.							
2 3 4 5	Na Massachusetts, .							Under 19	20 to 49	50 and Over	Totals '
3 1 4 5	Massachusetts, .		RO.					162	137	103	402
4 5	•	nve	Bor	78.				153	103	82	838
5			•					152	97	79	328
-	Other towns, .							31	26	24	81
A (Town named,							121	71	55	247
٠, ١	Other States, .		•	•	•	•	•	1	6	3	10
7	For	eign	Bo	m.				9	34	21	64
8 (Canada (English)	•						_	1	-	1
	England,							_	-	1	1
10 1	Ireland,							_	-	-	-
	New Brunswick,							_	-	-	_
12 1	Norway,							_	1	-	1
ı	Nova Scotia							-	1	1	2
14 1	Portugal,							9	31	17	57
15	Not specified,							-	_	_	_
16	Western Islan	ds.						9	31	17	57
17]	Prince Edward Is	•						_	_	2	2
	Scotland, .							_	_	_	_
- 1	Wales,							_	-	•-	_
l									1		
20	W	BLLI	FLE:	BT.				138	156	155	449
21	Na	tive	Bor	n.				131	144	144	419
22 1	Massachusetts	1						129	134	135	398
23	Other towns, .							20	43	34	97
24	Town named,							109	91	101	301
25 0	Other States, .							2	10	9	21
26	For	eign	Bo	rn.				7	12	11	30
27	American Citizen	•			æd).			-	_	_	_
1	Canada	-						5	7	6	18
29	English, .							3	3	2	8
30	French,							2	4	4	10
81 1	England,							_	_	2	2
	France					_		_	_	1	1
- -	Germany,				Ċ			_	2	_	2
'	reland		:				•	_	_	_	_
	Japan,		•		:	•	•	2	_	_	2
	Portugal,			•	•	•	:	[3	2	5
37	Not specified.			•	•	:	:	_	3	2	5
38	Western Island	ds.		•	•	:		_	_	_	
			<u>.</u>							l	

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

I		BEXES	Вотн 8			ALES	Fem	
	Totals	59 and Over	20 to 49	Under 19	Totals	50 and Over	30 to 49	Under 19
Ì	815	238	277	300	413	135	140	138
l	690	197	207	286	352	115	104	133
ł	664	189	192	283	336	110	95	131
l	145	37	54	54	64	13	28	23
I	519	152	138	229	272	97	67	108
l	26	8	15	3	16	5	9	2
	125	41	70	14	61	20	36	5
١	. 1	-	1	-	-	-	-	-
١	3	1	2	-	2	-	2	-
١	1	-	1	-	1	-	1	-
I	1	-	1	-	1	-	1	-
l	1	-	1	-	-	-	-	-
l	10	4	5	1	8	8	4	1
l	104	32	59	13	47	15	28	4
I	-	-	-	-	-	-	-	-
١	104	32	59	13	47	15	28	4
١	2	2	-	-	-	-	-	-
	1	1	-	-	1	· 1	-	-
	1	1	-	-	1	1:	-	-
	968	348	349	271	519	193	193	133
	900	327	315	258	481	183	171	127
l	848	304	290	254	450	169	156	125
I	217	84	90	43	120	50	47	23
i	631	220	200	211	330	119	109	102
	52	23	25	4	31	14	15	2
	68	21	84	13	38	10	22	6
	4	1	1	2	4	1	1	2
	46	13	25	8	28	7	18	3
	24	7	11	6	16	5	8	8
	22	6	14	2	12	2	10	-
	4	3	-	1	2	1		1
	1	1	-	-	-	-		-
I	3	-	8	-	1	-	1	-
	2	1	1	-	2	1	1	-
1	2	-	- }	2	-	-	-	-
	6	2	4	-	1	-	1	-
1	6	2	4	-	1	-	1	-
I	-	-	-	-	-	-	-	-

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

Native Born. 205 321 246 773					Ма	LE8	
Native Born. 205 309 232 746		PLACE OF BIRTH.		Under 19	20 to 49		Totals
Massachusetts 200 294 217 711 4 Other towns 31 101 82 214 5 Town named 169 193 135 495 6 Other States 5 15 15 33 35 495 6 Other States 5 15 15 33 35 395 3	1	YARMOUTH.		205	321	246	772
4 Other towns, 31 101 82 216 5 Town named, 169 193 135 497 6 Other States, 5 15 15 33 7 Forsign Born. - 12 14 22 8 Canada (English), - 2 - 2 9 England, - 1 3 3 10 Germany, - 2 - 2 11 Ireland, - - 6 6 12 Portugal, - 1 2 3 13 Not specified, - - 1 1 1 14 Western Islands, - - 1 1 1 1 15 Russia, - - 5 1	2	Native Born.		205	309	232	746
5 Town named, 169 193 135 497 6 Other States, . 5 15 15 33 7 Foreign Born. - 12 14 22 8 Canada (English), - 2 - 3 9 England, - 1 3 - 10 Germany, - 2 - - 2 11 Ireland, - - 2 - - 3 4 12 Portugal, - - 1 2 3 1	3	Massachusetts,		200	294	217	711
6 Other States,	4	Other towns,		31	101	82	214
7 Foreign Born. - 12 14 22 9 England,	5	Town named,		169	193	135	497
8 Canada (English),	6	Other States,		5	15	15	35
9 England,	7	Foreign Born.		_	12	14	26
10 Germany,	8	Canada (English),		_	2	-	2
11 Ireland, - - 6 6 12 Portugal, - - 1 2 3 13 Not specified, - - 1	9	England,		_	1	3	4
12 Portugal, - 1 2 1 13 Not specified, - - 1 1 14 Western Islands, - 1 1 1 15 Russia, - 5 1 6 16 Scotland, - - 1 - 17 Sweden, - - - 2 2 18 Wales, - - - - 2 2 2 1 - <	10	Germany,		-	2	-	2
13 Not specified, - - 1 1 14 Western Islands, - 1 1 1 15 Russia, - - 5 1 6 16 Scotland, - - 1 - - - 2 2 1 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <td>11</td> <td>Ireland,</td> <td></td> <td>_</td> <td>-</td> <td>6</td> <td>6</td>	11	Ireland,		_	-	6	6
14 Western Islands, - 1 1 1 15 Russia, - 5 1 6 16 Scotland, - - 1 - 1 17 Sweden, - - - 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3,209 11,16 <td>12</td> <td>Portugal,</td> <td></td> <td>_</td> <td>1</td> <td>2</td> <td>3</td>	12	Portugal,		_	1	2	3
15 Russia, - 5 1 6 16 Scotland, - - 1 - - 1 - - - 2 2 2 1 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <td>13</td> <td>Not specified,</td> <td></td> <td>-</td> <td>-</td> <td>1</td> <td>1</td>	13	Not specified,		-	-	1	1
16 Scotland, - 1 - 1 - 1 - 1 - 2 1 1 - 2 2 1 1 - - - 2 2 2 2 2 2 2 2 3 1 3,209 11,8 3,209 11,8 3,209 11,18 3,209 11,28 3,209 2,81 2,209 3,28 2,28 2,28 <t< td=""><td>14</td><td>Western Islands,</td><td></td><td></td><td>1</td><td>1</td><td>2</td></t<>	14	Western Islands,			1	1	2
17 Sweden, - - 2 3 18 Wales, - - - - 19 THE COUNTY. 4,353 5,318 3,623 13,22 20 Native Born. 4,204 4,440 3,209 11,8 21 Massachusetts, . 4,051 4,145 2,990 11,18 22 9 3 . . 2 9 3 . 23 Other towns, . 624 1,295 935 2,8 24 Town named, . 3,425 2,841 2,052 8,3 25 Other States, . 153 295 219 6 26 Foreign Born. 149 878 414 1,4 27 American Citizens (born abroad), . 5 4 2 28 American Citizens (born at sea), . 1 2 1 29 At sea, 	15	Russia,		-	5	1	6
18 Wales, - - - - - - - - - - - - - - - - -	16	Scotland,		_	1	- 1	1
THE COUNTY. 19 Native Born. 4,353 5,318 3,623 13,22	17	Sweden,		-	-	2	2
20 Native Born. 4,204 4,440 3,209 11,8 21 Massachusetts,	18	Wales,		-	-	-	-
20 Native Born. 4,204 4,440 3,209 11,81 21 Massachusetts,	19	THE COUNTY.		4,353	5,318	3,623	13,294
21 Massachusetts,	20	Natine Rorn.		4.204	4.440	3.209	11,853
22 Not specified, . . 2 9 3 . . 23 Other towns, . <t< td=""><td>21</td><td></td><td></td><td>,</td><td>1 1</td><td>'</td><td>11,186</td></t<>	21			,	1 1	'	11,186
23 Other towns,	22			ı •	, ,	1 '	14
24 Town named, 3,425 2,841 2,052 8,31 25 Other States, 153 295 219 66 26 Foreign Born. 149 878 414 1,44 27 American Citizens (born abroad), 5 4 2 1 28 American Citizens (born at sea), 1 2 1 - - - 1 -<	23	- '	•		1.295	935	2,854
25 Other States,	24	•			1 1	2.052	8,318
27 American Citizens (born abroad),	25	•		''		, ,	667
27 American Citizens (born abroad), 5 4 2 28 American Citizens (born at sea), 1 2 1 29 At sea, - 1 - 30 Austria, - 1 - 31 Belgium, - - 1 1 32 British America, n. s., - - - - 33 British Possessions, Other 1 6 3 51 10 34 Canada, 24 83 51 10 35 English, 20 73 46 13 36 French, 4 10 5 1 37 China, - 3 2 38 Denmark, - 4 4 4 4 4 4 59 England, 6 38 54 6	26	Foreign Born.		149	878	414	1,441
28 American Citizens (born at sea), 1 2 1 29 At sea,	27	_		5	4	2	11
29 At sea,	28			1	2	1	4
31 Belgium,	29	-		-	1	_	1
32 British America, n. s., - - - - 33 British Possessions, Other . . 1 6 3 . 34 Canada, .	30	Austria,		_	1	_	1
33 British Possessions, Other	31	Belgium,		_	1	1	2
34 Canada,	32	British America, n. s.,		_	_	-	_
35 English,	33	British Possessions, Other		1	6	3	10
36 French,	34	Canada,		24	83	51	158
37 China,	35	English,		20	73	46	139
38 Denmark,	36	French,	. }	4	10	5	19
39 England, 6 38 54 1	37	China,	.]	-	3	2	5
	38	Denmark,	.	-	4	4	8
	39	England,	.	6	38	54	98
40 France,	40	France,	٠	2	6	4	12

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Continued.

				Continued				
	FEM	ALES			Вотн	SEXES		
Under 19	20 to 49	50 and Over	Totals	Under 19	20 to 49	50 and Over	Totals	
208	354	321	883	413	675	567	1,655	1
205	328	304	837	410	637	536	1,583	2
189	303	277	769	389	597 -	494	1,480	3
41	120	111	272	72	221	193	486	4
148	183	166	497	317	376	301	994	5
16	25	27	68	21	40	42	103	6
3	26	17	46	3	38	31	72	7
1	4	3	8	1	6	3	10	8
-	5	3	8	_	6	6	12	9
-	3	_	3	_	5	-	5	10
1	6	8	15	1	6	14	21	11
-	1	-	1	_	2	2	4	12
- 1	_	-	-	-	-	1	1	13
-	1	-	1	_	2	1	3	14
1	3	-	4	1	8	1	10	15
-	2	-	2	_	8	_	3	16
-	2	2	4	-	2	4	6	17
-	-	1	1	-	-	1	1	18
4,296	5,918	4,146	14,360	8,649	11,236	7,769	27,654	19
4,124	4,953	3,721	12,798	8,328	9,393	6,930	24,651	20
3,961	4,515	3,436	11,912	8,012	8,660	6,426	23,098	21
1	8	4	13	3	17	7	27	22
729	1,609	1,279	3,617	1,353	2,904	2,214	6,471	23
8,231	2,898	2,153	8,282	6,656	5,739	4,205	16,600	24
163	438	285	886	816	733	504	1,553	25
172	965	425	1,562	321	1,843	839	3,003	26
10	6	2	18	15	10	4	29	27
2	2	-	4	3	4	1	8	28
-	2	2	4	-	3	2	5	29
-	-	-	-	-	1	-	1	30
-	1	-	1	-	2	1	3	31
-	-	1	1	-	-	1	1	32
- [1	-	1	1	7	3	11	33
22	146	67	235	46	229	118	393	34
20	132	65	217	40	205	111	356	35
2	14	2	18	6	24	7	37	36
- [-	-	-	-	3	2	5	37
1	3	-	4	1	7	4	12	38
7	68	33	108	13	106	87	206	39
-	4	-	4	2	10	4	16	40

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Concluded.

							Ma	LRS	
	Place () BI	RTH.		 ,	Under 19 20 to 49 50 and Over To			
	THE COU	NT	r — (Con.					
	Foreign 1	Born	— C	n.		1			
1	Germany,		•	•		1	22	3	26
2	Ireland,					5	64	96	165
8	Italy,					1	3	1	5
4	Japan,	•				2	_	_	2
5	New Brunswick,					-	17	1	18
6	Newfoundland, .					-	8	-	3
7	Norway,	•				- 1	7	4	11
8	Nova Scotia, .				•	16	29	15	60
9	Oceania,					_	1	-	1
10	Poland,					_ '	1	_	1
11	Portugal,					80	489	149	718
12	Not specified,					4	19	11	34
13	Western Islands					76	470	138	684
14	Prince Edward Isla	nd,				1	6	2	9
15	Russia,					2	27	5	34
16	Sandwich Islands (Haw	aii).			_	1	_	1
17	Scotland,		•			2	7	5	14
18	South America.					_ '	_	1	1
19	Spain,					_	2	_ ,	2
20	Sweden,					- 1	29	7	36
21	Switzerland, .	•				_	1	_	1
22	Wales,					-	3	-	8
23	West Indies.					_	17	3	20

The facts for the county, as a whole, appear in the final section of the table. First, as to the native born, who number in the aggregate 24,651, we find that 23,098 were born in Massachusetts. Of these, a nearly equal number are of each sex, the males numbering 11,186, and the females 11,912; and of the whole, 16,600 were born in towns upon the Cape, that is, are not only natives of Massachusetts, but are natives of the county in which they now live. Here again the males and females practically balance each other, the former numbering 8,318 and the latter 8,282. Natives of other towns in Massachusetts number 6,471, of whom 2,854 are males and 3,617 females, the females thus showing an excess of 763.

Native Born and Foreign Born: By Place of Birth, Sex, and Age Periods
— Concluded.

	SEXES	Вотя			ALES	Fun	
Totals	50 and Over	20 to 49	Under 19	Totals	50 and Over	20 to 49	Under 19
42	5	33	4	16	2	11	8
443	240	192	11	278	144	128	6
5	1	3	1	-	-	-	-
2	-	-	2	-	-	-	-
50	12	38	-	32	11	21	- 1
9	-	9	-	6	-	6	-
12	4	8	-	1	-	1	-
183	38	110	35	123	23	81	19
2	-	1	1	1	-	_	1
2	-	1	1	1	-	-	1
1,318	266	894	158	600	117	405	78
53	15	33	5	19	4	14	1
1,265	251	861	153	581	113	391	77
19	5	12	2	10	8	6	1
60	5	44	11	26	-	17	9
1	-	1	-	-	-	-	-
44	17	23	4	30	12	16	2
8	1	2	-	2	_	2	-
4	2	2	-	2	2	-	-
76	11	61	4	40	4	32	4
3	-	2	1	2	-	1	1
5	2	3	-	2	2	-	- j
30	3	22	5	10	-	5	5
	42 443 5 2 50 9 12 183 2 2 1,318 53 1,265 19 60 1 44 3 4 76 3 5	50 and Over Totals 5 42 240 443 1 5 - 2 12 50 - 9 4 12 38 183 - 2 2 286 1,318 15 53 251 1,265 5 19 5 60 - 1 17 44 1 3 2 4 11 76 - 3 2 5	33	Under 19 20 to 49 56 and Over Totals	Totals Under 19 20 to 49 50 and Over Totals 16 4 33 5 42 278 11 192 240 443 - 1 3 1 5 - 2 - - 2 82 - 38 12 50 6 - 9 - 9 1 - 8 4 12 123 35 110 38 183 1 1 1 - 2 1 1 1 - 2 600 158 894 266 1,318 19 5 33 15 53 581 153 861 251 1,265 10 2 12 5 19 26 11 44 5 60 - - 1 - 1	Se and Over Totals Under 19 20 to 49 Se and Over Totals 2 16 4 33 5 42 144 278 11 192 240 443 - - 1 3 1 5 - - 2 - - 2 11 32 - 38 12 50 - 6 - 9 - 9 - 1 - 8 4 12 23 123 35 110 38 183 - 1 1 1 - 2 1 1 1 - 2 17 600 158 894 266 1,318 4 19 5 33 15 53 113 581 153 861 251 1,265 3 10 2 12 <t< td=""><td> Totals</td></t<>	Totals

Natives of other States, who have come into the county and are now living there, number 1,553, the males numbering 667 and the females 886, thus showing an excess of more than 200 females. Allusion was made on page nine to the slight influence of immigration from abroad upon the population of the county. It will be seen that the movement from other States to Barnstable County, as well as from other towns in Massachusetts to the Cape, has also been very slight.

The foreign-born contingent, which includes 3,003 persons, is largely made up of three elements: natives of Ireland, numbering 443; natives of the British American possessions, who number, including those born in Canada, New Brunswick,

1

Newfoundland, Nova Scotia, and Prince Edward Island, 655; and the Portuguese. Portuguese born in the Western Islands, concerning whom we are especially directed to inquire, number 1,265; and there are 53 others who were returned as Portuguese, the specific place of birth being unknown. These may be classed with the Western Islanders, who, of course, are also Portuguese, the aggregate under this head thus becoming 1,318, or 43.89 per cent of the entire foreign-born population of the Cape.

These three nationalities have been attracted to the Cape for two reasons. As to the Irish and English, the fishing industry is chiefly influential; this also has affected the coming of the others, but the comparative cheapness of real estate, due to the departure of the original inhabitants, thus making it easy to establish homes, has also had an important influence. The three elements named include 2.416 persons, or 80.45 per cent of the entire foreign-born population. Confining our attention to the Portuguese, it is to be noted that the males number 718, and the females 600. As to ages, they are largely persons in the prime of life, 489 males and 405 females being between 20 and 49 years of age. The males under 19 number 80 and the females under 19, 78; while the males 50 years of age and over number 149, and the females 117. aggregate, therefore, 894, or 67.83 per cent of the whole number, are found in the age period 20 to 49. This may be profitably compared with the ages of the native born. the whole number of native born, 9,393 are found in the age period 20 to 49, 8,328 below this period, and 6,930 above it. Of the foreign born as a whole, 1,843 are found in the age period 20 to 49, 321 below this period, and 839 above it.

The population from 16 to 60 years of age is usually classed as industrially productive. Such a classification is, of course, somewhat arbitrary, as persons above 60 years of age do not always cease to be industrially effective; within the ordinary limitations, however, the classification is accurate. The movement away from the Cape of industrially effective persons among the native born is quite clearly shown by the extremely high percentages of the population above the productive age limit; that is to say, above 60 years of age. In 1885, the population

of Barnstable County being then 29.845, 58.74 per cent was included within the productive age group (16 to 60), while above the age of 60 there was found 15.06 per cent of the entire population. 26.20 per cent being young persons below the age of 16. In 1895, the population has dropped to 27,654. and the Census returns have shown that 58.45 per cent is now within the productive age group (16 to 60), a proportion not greatly different from that which existed in 1885; but, as the population has declined, while this proportion has remained substantially unchanged, the uniformity is caused by the fact that the percentage of young persons has fallen to 25.06, and we now find 16.49 per cent of the entire population above the productive age limit. As to the native-born population alone, it will be seen from the figures presented in the foregoing table, that 28.11 per cent is of the age of 50 years and This large percentage of persons above the industrially productive age limit, and therefore classed as dependent by reason of age, although all of them are not actually dependent. is due almost entirely to the movement of native-born young persons away from the Cape as soon as they desire to enter industrial life, there being no desirable employment obtainable in the towns of their nativity.

It is not necessary to point out in detail the composition of the population in each of the towns. It should, however, be noticed that while the Western Islanders form a large proportion of the foreign-born element, they are practically confined to the following towns, each of which contains the annexed number of Western Islanders and other Portuguese: Falmouth, 81; Harwich, 107; Provincetown, 962; Truro, 104. have previously shown that the population in Provincetown has risen in 30 years from 3,472 to 4,555. We now find that if the Portuguese who have come into that town are excluded, the population would be but 3,593, an increase of but 121 persons over the population of the town in 1865. The Portuguese have also contributed to the growth of Falmouth, which, except Provincetown, is the only town showing an increase of population during 30 years.

The next table shows the length of residence of the foreign born.

Length of Residence of Foreign Born.

	9.0	- 9	roreign B				
LENGTH OF	RESIDENC	E.			Males	Females	Both Sexes
Barnstable.							
Massachusetts, .					103	130	233
Under 2 years, .					4	7	11
2 to 5 years, .					25	· 27	52
6 years and over,					74	96	170
United States, .					103	130	233
Under 2 years, .					8	7	10
2 to 5 years, .					23	23	46
6 years and over,					7 7	100	177
Bourne.							
Massachusetts, .					45	49	94
Under 2 years, .					-	-	-
2 to 5 years, .					14	17	31
6 years and over,					31	82	63
United States, .					45	49	94
Under 2 years, .					-	-	-
2 to 5 years,					11	16	27
6 years and over,					34	33	67
Brewster.							1
Massachusetts, .					31	39	70
Under 2 years, .					1	_	1
2 to 5 years, .					4	2	6
6 years and over,					26	37	63
United States, .					31	39	70
Under 2 years, .					-	-	-
2 to 5 years, .					2	1	3
6 years and over,					29	38	67
Chatham.							
Massachusetts, .					20	25	45
Under 2 years, .					-	-	-
2 to 5 years, .				•	2	5	7
6 years and over,					18	20	38
United States, .					20	25	45
Under 2 years, .					-	-	_
2 to 5 years, .					1	4	5
6 years and over,					19	21	40
Dennis.							
Massachusetts, .					49	60	109
Under 2 years, .					2	3	5
2 to 5 years, .					6	16	22
6 years and over,					41	41	82
United States, .					49	60	109
Under 2 years, .					2	1	3
2 to 5 years, .					5	15	20
6 years and over,					42	44	86

Length of Residence of Foreign Born - Continued.

= Dengue of	100	ouc.		y F	07 E E	уп Богп — (continued.	
LENGTH OF	Resid	ENCE.				Males	Females	Both Sexes
Eastham.								
Massachusetts, .						4	10	14
Under 2 years, .						_	1	1
2 to 5 years, .	•					1	4	5
6 years and over,						3	5	8
United States, .						4	10	14
Under 2 years, .						-	1	1
2 to 5 years, .						1 1	8	4
6 years and over,						3	6	9
Falmouth.								
Massachusetts, .						172	199	371
Under 2 years, .						7	9	16
2 to 5 years,						50	54	104
6 years and over,		•				115	136	251
United States, .						172	199	371
Under 2 years			-			4	7	11
2 to 5 years, .			-			41	41	82
6 years and over,						127	151	278
Harwich.	•	•	•	•	•	121	101	210
Massachusetts, .						72	90	162
Under 2 years, .	:	•	•	:		2	4	6
2 to 5 years, .	•	•		·		13	29	42
6 years and over,	•	•	•	•	•	57	57	114
United States, .	:	:	:	•		72	90	162
Under 2 years, .	:	•		•	•	2	4	6
2 to 5 years, .	:	•	:	•		12	25	37
6 years and over,	•	:	•	•	-	58	61	119
Mashpee.	•	•	•	•	•	56	01	119
Massachusetts, .						5		11
Under 2 years, .	•	•	•	•	•	1	6	1
0 40 8	•	•	•	•	•	· · · · · · · · · · · · · · · · · · ·	-	1
6 years and over.	•	•	•	•	•	1	_	1
77-14-3 Ga. 4	•	•	•	•	•	3	6	.9
United States, . Under 2 years, .	•	•	•	•	•	5	6	11
= =	•	•	•	•	•	-	-	-
2 to 5 years, .	•	•	•	•	•	1	_	1
6 years and over, Orleans.	•	•	•	•	•	4	6	10
Massachusetts, .	•	•	•	•	•	32	34	66
Under 2 years, .	•	•	•	•	•	-	1	1
2 to 5 years, .	•	•	•	•	•	4	5	9
6 years and over,	•	•	•	•	•	28	28	56
United States, .	•	•	•	•		32	34	66
Under 2 years, .	•	•	•	•		-	1	1
2 to 5 years, .	•	•	•	•	•	2	2	4
6 years and over,		•		•		30	31	61

Length of Residence of Foreign Born - Continued.

Length of 1	Resid	ENCE.	i		Males	Females	Both Sexe
Provincetown.						-	
Massachusetts, .					686	641	1,327
Under 2 years, .					14	12	26
2 to 5 years, .					113	142	255
6 years and over,					559	487	1,046
United States, .					686	641	1,327
Under 2 years, .					14	12	26
2 to 5 years, .					110	142	252
6 years and over,					562	487	1,049
Sandwich.							
Massachusetts, .					102	134	236
Under 2 years, .					2	5	7
2 to 5 years, .					15	17	32
6 years and over,					85	112	197
United States, .	•				102	134	236
Under 2 years, .					1	2	3
2 to 5 years, .					16	18	34
6 years and over,					85	114	199
Truro.							
Massachusetts, .					64	61	125
Under 2 years, .					6	4	10
2 to 5 years,					5	8	13
6 years and over,					53	49	102
United States, .					64	61	125
Under 2 years, .					6	4	10
2 to 5 years, .					5	8	13
6 years and over,					53	49	102
Wellfleet.							
Massachusetts, .					30	38	68
Under 2 years, .					-	-	-
2 to 5 years, .		•			3	5	8
6 years and over,					27	33	60
United States, .		•			30	38	68
Under 2 years, .					_	-	_
2 to 5 years, .					8	5	8
6 years and over,					27	33	60
Yarmouth.							
Massachusetts, .					26	46	72
Under 2 years, .					_	2	2
2 to 5 years, .				•	6	8	14
6 years and over,					20	36	56
United States, .					26	46	72
Under 2 years, .			٠.		-	2	2
2 to 5 years,					6	5	11
6 years and over.					20	39	59

Length	OF :	Resid	Males	Females	Both Sexes							
Thi	в С	UNT										
Massachusetts, .							1,441	1,562	3,003			
Under 2 years,		•	•				39	48	87			
2 to 5 years, .							262	339	601			
6 years and over,							1,140	1,175	2,315			
United States, .						.	1,441	1,562	3,003			
Under 2 years,						.	32	41	73			
2 to 5 years, .							239	308	547			
6 years and over,							1,170	1,213	2,383			

Length of Residence of Foreign Born - Concluded.

Referring to the recapitulation for the county, we find that of the 3,003 foreign born, 2,315 have resided in Massachusetts six years and over, 601 have been in the State from two to five years, while only 87 have a length of residence under two years. The proportions of the different sexes are nearly equal, and the periods of residence bear practically the same relation to each other for each sex, as indicated by the aggregates just quoted. As to length of residence in the United States, the figures are almost identical with those showing length of residence in Massachusetts. For example, 2,383 foreign-born persons have resided in the United States six years and over, 547 from two to five years, and 73 under two years. These figures indicate that so far as the larger part of the foreign-born persons are concerned, they are not very recent accessions.

Turning to the towns which show the largest number of Western Islanders, we find that in Falmouth, 251 of the foreign-born residents have resided in Massachusetts six years and over, while 104 have been here from two to five years, only 16 showing a residence under two years; while 278 have been in the United States six years and over, 82 from two to five years, and 11 under two years. In Harwich, there are 114 who have been in Massachusetts six years and over, 42 from two to five years, and six under two years; while 119 have been in the United States six years and over, 37 from two to five years, and six under two years. In Provincetown, 1,046 have resided in Massachusetts six years and over, 255 from two to five years, and 26 under two years; while 1,049 have resided in the

United States six years and over, 252 from two to five years, and 26 under two years. In Truro, 102 have resided in Massachusetts six years and over, 13 from two to five years, and 10 under two years; and the figures showing length of residence in the United States are identical with these.

The full extent of the foreign-born influence is not shown by figures relating only to persons of foreign birth. It is necessary to take into account parent nativity also, and facts as to parent nativity are presented in the following table:

Parent Nativity.

Paren	r Nat	IVIT	Y.				Males	Females	Both Sexe
Barnstable,				•			1,944	2,111	4,055
Both parents native,	,						1,582	1,738	3,320
Both parents born in	a san	ne fo	rei	gn co	untry	7, .	144	177	321
Austria, .			•	•	•	•	1	· -	1
British Possession	s, Ot	her					1	-	1
Canada, .				•			1	3	4
English, .							1	8	4
French, .							-	_	_
China,						.	2	-	2
England, .						.	24	29	53
France,						.	2	2	4
Germany, .	•					.	4	2	6
Ireland, .						.	62	68	130
Italy,						.	2	-	2
New Brunswick,	•						1	12	13
Norway, .						.	1	1	2
Nova Scotia,						.	11	24	35
Poland, .							1	_	1
Portugal, .						.	8	9	17
Not specified,							1	1	2
Western Island	3.						7	8	15
Prince Edward Is	, land,						_	1	1
Russia,	•						7	8	15
Sandwich Islands	(Ha	waii),				1	_	1
			•				7	9	16
Sweden, .							8	7	15
West Indies,							-	2	2
Mixed parentage,	•			•			218	196	414
Bourne,							772	808	1,580
Both parents native,	,	•					644	681	1,325

Parent Nativity - Continued.

Park	NT N	ATIVI:	Males	Females	Both Sexe				
Bourne — Con.									
Both parents born	in sa	ame f	oreig	n co	untry,		55	58	113
Canada, .					•		_	1	1
English, .					•		-	1	1
French, .							_	-	-
England, .							7	4	11
Germany, .							_	2	2
Ireland, .							- 11	19	30
New Brunswick	, .						5	4	9
Newfoundland,							_	1	1
Norway, .							3	1	4
Nova Scotia,					•		14	9	23
Portugal, .							2	3	5
Not specified,							2	8	5
Western Islan	ds,						-	-	-
Prince Edward	Islan	d,					1	1	2
Russia,		•					7	8	15
Scotland, .					•		3	1	4
Sweden, .							2	4	6
Mixed parentage,							73	69	142
Brewster	_					_	437	464	901
Both parents nativ	re.	•		·		•	359	371	730
Both parents born	•	me f	oreig	n co	antry.		41	55	. 96
British Possessie			_				1	_	1
England, .							4	9	13
Germany, .	•						1	3	4
Ireland.							22	30	52
New Brunswick							1	_	1
Norway, .		•		•			1	-	1
Nova Scotia,					•		2	5	7
Portugal, .							6	3	9
Not specified,					•		_	_	_
Western Islan							6	3	9
Prince Edward	-	ıd.			•		_	2	2
Spain,	•				•		-	• 1	1
Sweden.			•				3	2	5
Mixed parentage,		•	•				37	88	75
			•	•	-	•	898	911	1,809
Chatham,	•	•	•	•	•	•	898 814	837	1,651
Both parents nativ	•	•	• Iomai	•	•	•	25	25	50
Both parents born			-	•	•		1		1
British Possessi	ons,	Other	•	•	•	•	1	-	1
Denmark, .	•	•	•	•	•	•	1	9	18
England, .	•	•	•	•	•	٠	9	, ,	18

Parent Nativity -- Continued.

		b/ 676	. 114	iivuy		Conunuea.		
PARENT	Nativ	ITY.				Males	Females	Both Sexes
Chatham — Con.				-				
Both parents born in — Con.	sam	e for	eign	count	7			
France,			•	•		1	-	1
Germany,	•	•	•	•	.	-	2	2
Ireland,	•		•	•		10	7	17
New Brunswick, .	•	•	•	•	.	1	1	2
Nova Scotia, .	•	•	<i>:</i>	•		1	4	5
Portugal,	•	•	•	•		1	-	1
Not specified, .	•	•	•	•	\cdot	-	-	-
Western Islands,	•	•	•	•	•	1	-	1
Prince Edward Isla	nd,	•	•	•	•	-	1	1
Scotland,	:	•	•	•	.	-	1	1
Mixed parentage, .	•	•	•	•	.	59	49	108
Dennis,					.	1,164	1,381	2,545
Both parents native,					.	1,031	1,228	2,259
Both parents born in	same	forei	n co	untry,	.	56	61	117
Canada,				•	.	9	18	27
English,					.	8	18	26
French,					.	1	_	1
Denmark,				•		1	_	1
England,					.	. 8	10	18
Germany,						4	1	5
Ireland,		•				7	16	23
Norway,				•		i	_	1
Portugal,						22	18	35
Not specified, .			•	•		22	12	34
Western Islands,				•			1	1
Scotland,	·	•		•		1	8	4
Sweden	•	·	-	_		3	_	3
Mixed parentage, .	•	•	•	•		77	92	169
	•	•	•	•				
Eastham,	•	•	•	•	•	234	242	476
Both parents native,	•	. • .	•	•	•	214	220	434
Both parents born in	same	rorei	gn co	untry,	•	6	8	14
Canada,	•	•	•	•	•	ì	2	8
English,	•	•	•	•	•	1	2	3
French,	• `	•	•	•	٠	-	-	-
England,	•	•	•	•	•	2	3	5
Ireland,	•	•	•	•	•	2	1	3
New Brunswick, .	•	•	•	•	•	-	1	1
Portugal,	•	•	•	•	.	1	-	1
Not specified, .	•	•	•	•	•	-	-	-
Western Islands,	•	•	•	•	•	1	-	1
Scotland,	•	•	•	•	•	-	1	1
Mixed parentage, .	•	•	•	•	<u>.</u>	14	14	28

Parent Nativity - Continued.

		_ P	aren	t Na	livity	_	Continued.		
PA	RENT]	NATIV	ITY.				Males	Females	Both Sexes
Falmouth,				•			1,283	1,372	2,655
Both parents nat	tive,				•		975	980	1,955
Both parents bor	m in e	same	foreig	gn co	untry,		221	270	491
British Posses	sions,	Othe	r.				2	1	3
Canada, .		, •					9	9	18
English, .				•			3	7	10
French, .	•						6	2	8
China,		•			•		1	-	1
Denmark, .	•			•			3	2	5
England, .							14	32	46
France,	•						1	3	4
Germany, .							7	8	15
Ireland, .							80	117	197
Italy,							1	-	1
New Brunswic	k, .						3	2	5
Nova Scotia,							4	17	21
Oceania, .							1	1	2
Portugal, .							78	49	127
Not specified	ı, .						6	6	12
Western Isla	•						72	43	115
Prince Edward	d Isla	nd.					1	2	3
Russia		,		•		•	2	_	2
Scotland							3	10	13
Sweden, .		•					111	16	27
West Indies,				•				i	1
Mixed parentage	, .				•		87	122	209
Harwich							1,253	1,279	2,532
Both parents nat	Hwa	•	•	:	•	.•	1,097	1,115	2,212
Both parents bor	-		-		nnter	•	95	116	211
Canada, .					untry,		-	110	1
	•	•	•	•	•	•	1	1	i
_ ~	•	•	•	•	•	•	-		_
.	•	•	•	•	•	•	6	9	- 15
_ ~ ,	•	•	•	•	•	•	1 1	1	10
France, Ireland	•	•	•	•	•	٠	9	20	29
New Brunswic		•	•	•	•	•]	20	29
	ж, .	•	•	•	•	•	-	l -	_
Nova Scotia,	•	•	•	•	•	•	3 75	11	14
Portugal, .		•	•	•	•	•	75	72	147
Not specified		•	•	•	•	٠	72	70	147
Western Isla	•	•	•	•	•	•	75	72	147
Scotland, .	•	•	•	•	•	•	1	1	2
Mixed parentage	, .	•	•	•	•	•	61	48	109
Mashpee,	•	•	•	•	•	•	178	152	830
Both parents nat	ive,	•	•	•	•		149	· 134	283
							<u> </u>		<u> </u>

Parent Nativity - Continued.

Turon Turony		Содиниви.		
PARENT NATIVITY.		Males	Females	Both Sexes
Mashpee — Con.				
Both parents born in same foreign country	, .	5	6	11
Canada,		-	3	3
English,	•	- (3	3
French,	•	-	-	-
England,		- 1	1	1
Ireland,		2	1	3
Norway,		1	-	1
Russia,		1	-	1
Scotland,	.	-	1	1
West Indies,	.	1	-	1
Mixed parentage,		24	12	36
Orleans,		559	639	1,198
Both parents native,		463	558	1,021
Both parents born in same foreign country	, .	40	37	77
British Possessions, Other	.	2	-	2
Denmark,	.	1	_	1
England,		8	8	16
Germany,	.	2	3	5
Ireland,	.	13	7	20
New Brunswick,		-	2	2
Newfoundland,		-	2	2
Nova Scotia,	.	9	9	18
Prince Edward Island,	.	-	1	1
Scotland,	.	5	. 4	9
West Indies,	.	- 1	1	1
Mixed parentage,	.	56	44	100
Provincetown,	.	2,215	2,340	4,555
Both parents native,	.	731	855	1,586
Both parents born in same foreign country		1,203	1,194	2,397
Austria,	٠.	1	· _	1
Belgium,		1	_	1
British Possessions, Other	.	1	-	1
Canada	.	114	154	268
English,	.	112	153	265
French,		2	1	3
China,		2	_	2
Denmark,		4	2	6
England,		10	8	18
France,		1		1
Germany,		8	3	11
Ireland.		41	61	102
Italy,		2	_	2
	•	~	_	Ī _

Parent Nativity - Continued.

PARENT NATIVITY.	Males	Females	Both Sexe
Provincetown — Con.			
Both parents born in same foreign country — Con.	7		
Newfoundland,	. 1	-	1
Norway,	. 4	i -	4
Nova Scotia,	. 1	-	1
Portugal,	. 963	941	1,904
Not specified,	. 11	4	15
Western Islands,	. 952	937	1,889
Scotland,	. 23	21	. 44
South America (Brazil),	. 1	_	1
Spain,	. 2	-	2
Sweden,	. 4	-	4
West Indies,	. 19	4	23
Mixed parentage,	. 281	291	572
Sandwich,	. 734	846	1,580
Both parents native,	. 429	537	966
Both parents born in same foreign country,	. 196	205	401
Belgium,	. 4	1	5
England,	. 28	22	50
France,	. 4	-	4
Germany,	. 5	2	7
Ireland,	. 119	119	238
Italy,	. 2	-	2
New Brunswick,	. -	1	1
Newfoundland,	. -	1.	1
Nova Scotia,	. 9	20	29
Portugal,	. _	1	1
Not specified,	. -	_	-
Western Islands,	. -	1	1
Prince Edward Island,	1	_	1
Russia,	. 16	14	30
Scotland,	. 2	9	11
Sweden,	. 5	13	18
Switzerland,	. 1	2	3
Mixed parentage,	. 109	104	213
Traro,	. 402	413	815
Both parents native,	. 233	257	490
Both parents born in same foreign country,	. 133	115	248
Canada,	. -	1	1
English,	. _	_	_
French,	. _	1	1
England,	. 2	l i	3

Parent Nativity - Continued.

PARENT	NATIV	ITY.			•	Males	Females	Both Sexes
Truro — Con.								
Both parents born i — Con.	in sam	e for	eign	count	ry			
Ireland,		•	•			1	1	2
New Brunswick, .		•	•	•		-	1	1
Norway,		•	•	•		1	-	1
Nova Scotia,		•	•			5	5	10
Portugal,			•	•		123	103	226
Not specified,		•	•			-	_	-
Western Islands	, .					123	103 -	226
Prince Edward Isl	and,		•			1	-	Į
Scotland,						-	2	2
Wales,						_	1	1
Mixed parentage,		•		•	•	36	41	77
Wellfleet,		•				449	519	968
Both parents native,						364	419	783
Both parents born in	same	foreig	gn co	untry	, .	39	51	90
Canada,			•			26	38	64
English,						6	13	19
French,						20	25	45
England,						1 1	3	4
France						1	-	1
Germany,						2	1	3
Ireland,				•		1	4	5
Portugal,			-			8	5	13
Not specified,	-	•		•		8	5	13
Western Islands		÷	•	•		_	_	
Mixed parentage,	•	Ċ	•	·	•	46	49	95
Jimou paronamo,	•	٠	•	•	•	20	20	
Yarmouth,						772	883	1,655
Both parents native,			•			671	766	1,437
Both parents born in	same	foreig	gn co	untry	, .	41	70	111
British Possessions						_	1	1
Canada,						1	12	· 13
English,			•			1	12	13
French,						_	_	_
England, .				•		7	12	19
Germany,		•				4	3	7
Ireland, .						15	28	43
Portugal,	-	•		:		4	2	6
Not specified,		•	•	•		1	-	ı
Western Islands	-	:	·	:		3	2	5
Russia,	•	•				6	5	11
Scotland,		•	•	•	•	2	2	4
COMMUNICATION OF A	•	•	•	•	•		4	•

Parent Nativity - Concluded.

	Pare	NT I	NATIVI:	r¥.				Males	Females	Both Sexes
Yarmouth — Co	n.									
Both parents — Con.	borr	in	same	for	eign	count	ry			
Sweden,		•					•	2	4	6
Wales, .		•	•					-	1	1
Mixed parents	ıge,	•	•	•	•	•	•	- 60	47	107
THE COUNTY,			•					13,294	14,360	27,654
Both parents r	ativ	A.			_	_		9,756	10.696	20,452
Both parents l		•	ame f	orei	en eo	ontrv		2,300	2,448	4,748
Austria,	•	•		•	•	,		2		2
Belgium.								5	1	6
British Poss	essio	ns.	Other		·			8	2	10
Canada,	•	•	•	:	•		:	161	242	403
English,			·			•		132	213	345
French,						·		29	29	58
China, .			•		•	•		5		5
Denmark,						·		10	4	14
England,			·					130	160	290
France,								11	5	16
Germany,		•	•	:	•	•		37	30	67
Ireland,								395	499	894
Italy, .		•	•	:	•	•		7	_	7
New Brunsv	•	•	•	:	:	:	.	11	26	37
Newfoundla	-	•	•	:	:	:		1	4	5
Norway,	,	•	•	:	:	•		12	. 2	14
Nova Scotia	•	:	:	:	:	:		59	104	163
Oceania.		:	÷	:	:	:		1	1	2
Poland.	:	:	·	:	-			î	_	ī
Portugal,	:	•	:	:	•	•	.	1,291	1,201	2,492
Not specifi	-	:	•	:	•	:	.	51	31	82
Western I	•		•	•	:			1,240	1,170	2,410
Prince Edwa			ď	•	•	•		4	8	12
Russia, .		•	ιω,	•	•		- 1	39	35	74
Sandwich Is			Ioweli	`	•	•	٠,	1	_	1
Scotland,	ianu	5 (I	10 11 011	,,	•	•	.	47	65	112
South Ameri	· ion (D	-11\	•	•	•	.	1		1
Spain, .	•			•	•	•	•	2	- 1	3
Sweden.	•	•	•	•	•	•	.	38	46	84
Switzerland.	•	•	•	•	•	•	•	38	2	3
Wales, .		•	•	•	•	•		1	2 2	3 2
-	•	•	•	•	•	•	•	-	_	2 28
West Indies,		•	•	•	•	•	•	20	8	
Mixed parents	ge,	•	•	•	•	•	•	1,238	1,216	2,454

In analyzing this table we first refer to the recapitulation for the county. The figures show that of the 27,654 persons residing in Barnstable County, 20,452 have both parents native, while 4,748 (17.17 per cent of the entire population) have both parents born in the same foreign country; there are also 2,454 persons having mixed parentage. It will be remembered that the foreign-born persons number 3,003.

Referring particularly to the Western Islanders, we find that 2,410 had both parents born in the Western Islands, and 82 others had Portuguese parents, the particular place of birth not being stated; therefore the entire number of persons having wholly Portuguese parentage is 2,492, or 52.49 per cent of the total number of persons both of whose parents were born in the same foreign country. There were 403 persons having both parents born in Canada, including both English and French Canadians; and if we include with these, other persons having both parents born in some one of the English possessions in America, namely, New Brunswick, Newfoundland, Nova Scotia, and Prince Edward Island, we obtain an aggregate of 620 persons. The number of persons having both parents born in Ireland is 894.

Analyzing the towns where the Western Island influence is the strongest, the following facts appear: In Falmouth, we find 127 persons both of whose parents are attributed to Portugal, 115 having parents who were natives of the Western Islands. In Harwich, the Portuguese element is represented by 147 persons, both of whose parents were born in the Western Islands. In Provincetown, the persons having both parents born in the Western Islands number 1,889, while there are 15 others having both parents born in Portuguese possessions, not particularly stated, making the number of persons having both parents Portuguese 1,904. In Truro, there are 226 persons having both parents natives of the Western Islands. These numbers may in each case be compared with the number of persons born in the Western Islands or in Portugal in the preceding table. These last figures, of course, show the full extent of the Western Island and Portuguese strain in the towns named, which, as we have previously said, are the towns which have been most influenced by immigration from the Western Islands.

Having thus indicated the composition of the population of the Cape as it exists at present, we pass to a series of tables showing the condition of the industries of Barnstable County in 1895, as compared with 1885, with the increase or decrease indicated numerically and by percentages. The first table relates to the agriculture of the Cape, as shown by the value of agricultural property.

Agriculture: Value of Property.

THE CO	UKTI	. AND	Tow	NS.		1885 \$3,439,733	1895	Increase (+), or Decrease (-), in 1895 at Compared with 1885		
		,					2000	Amounts	Percentages + 23.44	
Тн	тв С	Count	TT.				\$4,246,169	+\$806,436		
Barnstable,						601,083	550,912	- 50,171	- 8.35	
Bourne, .				•		184,202	314,230	+ 130,028	+ 70.59	
Brewster,					•	95,698	167,968	+ 72,270	+ 75.52	
Chatham,						81,582	286,518	+ 204,936	+251.20	
Dennis, .			•			201,822	293,837	+ 92,015	+ 45.59	
Eastham,		•				135,422	145,714	+ 10,292	+ 7.60	
Palmouth,						515,653	669,281	+ 153,628	+ 29.79	
Harwich,					•	435,236	586,218	+ 150,982	+ 34.69	
Mashpee,				•		27,097	126,697	+ 99,600	+367.5	
Orleans,						395,732	154,215	241,517	— 61.0 3	
Provincetow	m,					83,410	87,631	+ 54,221	+162.2	
Sandwich,	•		•			279,729	207,247	_ 72,482	- 25.9	
Truro, .			•			88,922	145,430	+ 56,508	+ 63.5	
Weilfleet,		•				138,998	149,567	+ 10,569	+ 7.6	
Yarmouth,						225,147	360,704	+ 135,557	+ 60.2	

In 1885, the value of the entire agricultural property of Barnstable County was \$3,439,733; this has increased to \$4,246,160 in 1895, an increase of \$806,436, or 23.44 per cent. The figures compared represent the value of the plant devoted to agricultural purposes at each Census period, including land, buildings, appliances, and other property required for the prosecution of agriculture. While this gratifying increase is shown for the county, there are certain towns which show a decline. These towns are the following, the percentage of decline in each case being annexed: Barnstable, 8.35; Orleans, 61.03; and Sandwich, 25.91. All the other towns show an increase, the increase in certain towns being very large when shown by

Yarmouth.

percentages, due, of course, to the fact that the value in 1885 was in such cases quite small. Thus, an increase of \$204,936 in the town of Chatham results in a percentage of increase of 251.20, because the entire value returned in 1885 was but \$81.582. An increase of only \$99.600 in the town of Mashnee gives a percentage of increase of 367.57, owing to the fact that the value returned in 1885 was but \$27,097. On the other hand, an increase of about the same amount, namely, \$92,015, in the town of Dennis, gives a percentage of increase in that town of only 45.59. Each of the towns which have a comparatively large proportion of Western Islanders, namely, Falmouth, Harwich, Provincetown, and Truro, show percentages of increase larger than the percentage of increase for the county as a whole.

The next table shows the value of agricultural products under the Decennial Censuses of 1885 and 1895.

Тиш Со	NUC	TY, ANI	o Tov	VXS.		1885	1895	DECREASE (-), IN 1895 AS COMPARED WITH 1885			
								Amounts		Percentages	
Т	HE	Coun	TY.			\$950,175	\$1,053,915	+\$103,	,7 4 0	+ 10.92	
Barnstable,						177,262	199,524	+ 22,	262	+ 12.56	
Bourne, .		•			.]	71,159	57,485	13,	674	— 19.22	
Brewster,	•				.	19,921	41,403	+ 21,	482	+107.84	
Chatham,					.	18,136	58,112	+ 39,	976	+220.42	
Dennis,						54,767	55,065	+	298	+ 0.54	
Eastham,					.	54,098	57,742	+ 8,	644	+ 6.74	
Falmouth,					.	99,901	159,845	+ 59,	944	+ 60.00	
Harwich,					.	132,570	139,237	+ 6,	667	+ 5.03	
Mashpee,					.	18,250	25,187	+ 6,	937	+ 38.01	
Orleans,		•			.	96,106	36,389	59,	717	— 62.14	
Provincetow	m,					19,560	32,752	+ 13,	192	+ 67.44	
Sandwich,					.	70,804	33,112	— 37 ,	692	53.23	
Truro, .					.	38,399	60,660	+ 22,	261	+ 57.97	
Wellfleet,					.	44,289	46,457	+ 2.	168	+ 4.90	

Agriculture: Value of Products.

The agricultural products of the county for 1885 amounted in value to \$950,175, increasing in 1895 to \$1,053,915, an increase of \$103,740, or 10.92 per cent. The towns which

34,953

50.945

2,168 15,992 show a decline are the following, the percentages of decline being in each case annexed: Bourne, 19.22: Orleans, 62.14: and Sandwich, 53.23. Two of these towns, namely, Orleans and Sandwich, were among those which showed a decline in the value of agricultural property. On the other hand, the town of Barnstable, which showed a decline of 8.35 per cent in the value of agricultural property, shows an increase of 12.56 per cent in the value of agricultural products: while the town of Bourne, which showed a considerable increase in the value of agricultural property, shows a decline of 19.22 per cent in the value of products. In the towns which contain the largest numbers of Western Islanders, an increase in the value of agricultural products appears, the percentages of increase being as follows: Falmouth, 60; Harwich, 5.03; Provincetown, 67.44; and Truro, 57.97. The decline in the value of agricultural products and property in the town of Sandwich is partly due to the establishment of the town of Bourne out of its territory; as, while a decline appears in the value of agricultural products in 1895 as compared with 1885 upon the territory covered by the towns of Bourne and Sandwich together, an increase appears in the value of agricultural property.

The condition of the manufacturing industries of the Cape in 1885 and 1895 is shown in the next table. In 1885, the county contained 425 manufacturing establishments, which have declined to 328 in 1895. The capital invested in 1885 was \$2.719.563; and in 1895 but \$518.866. The value of stock used in the different industries in 1885 was \$1,263,861; the corresponding figure for 1895 is but \$558,679. The total value of goods made and work done in 1885 was \$2,513,206; the figures, however, decline to \$1,160,492 in 1895. The total amount paid in wages in 1885 was \$391,437; in 1895, the total wage payment amounted to \$258,675. It therefore plainly appears that there has been a marked decline in the manufacturing industries of the Cape. If we base our comparison on the output of these industries, that is, on the total value of goods made and work done, we shall find that this decline is not shown in every town, and this is true irrespective of the facts relating to capital. That is to say, capital may have declined or increased without affecting in the same way the value of output. The same statement applies to the disbursements for wages.

Statistics of Manufactures.

	THE COUNTY		n Tor			Number o Lishm		TOTAL AMOUNT OF CAPITAL INVESTED		
	THE COURT	,	<i>D</i> 101	, vo.		1885	1895	1885	1895	
1	Тне С	our	TY.			425	328	\$2,719,563	\$518,866	
2	Barnstable,					63	71	242,189	89,450	
3	Bourne, .				.	16	14	34,770	74,637	
4	Brewster, .		•		.	11	12	5,555	4,480	
5	Chatham, .				.	24	29	21,047	14,019	
6	Dennis, .		•			40	26	36,687	23,505	
7	Eastham, .					6	-]	1,215	_	
8	Falmouth, .				.	21	25	1,673,548	37,905	
9	Harwich, .			•	.	42	28	38,240	40,267	
lO	Mashpee, .	•	•			1	1	t	†	
ι1	Orleans, .					19	21	90,635	50,937	
12	Provincetown,			•		82	49	156,244	63,880	
l3	Sandwich, .					29	22	328,837	62,232	
l4	Truro, .					4	4	t-	† —	
15	Wellfleet, .					25	11	31,325	11,894	
16	Yarmouth,.		•			42	15	55,737	40,425	

We bring forward comparisons of output and of wages for each Census year, with percentages of increase or decrease.

Increase or Decrease in Product and Wages.

THE COUNTY, AND TOWNS.	VALUE OF G		Percentages of Increase (+), or De- crease (-), in	TOTAL AM IN W	Percentages of Increase (+), or De- crease (-), in	
70W36.	1885	1895	1895 as Com- pared with 1885	1885	1895	1895 as Com- pared with 1885
THE COUNTY.	\$2,513,206	\$1,160,492	53.82	\$391,437	\$258,675	- 33.92
Barnstable, .	103,305	256,631	+148.42	25,589	52,428	+104.88
Bourne,	69,337	143,425	+106.85	12,730	21,039	+ 65.27
Brewster, .	7,137	10,302	+ 44.35	389	750	+ 92.80
Chatham, .	27,576	35,119	+ 27.35	2,177	8,287	+280.66
Dennis,	81,809	50,153	— 38.70	10,296	11,824	+ 14.84
Eastham, .	5,860	_	_	•_	-	-
Falmouth, .	902,555	144,584	83.98	56,630	41,369	— 26.95
Harwich, .	83,431	52,964	- 36.52	20,736	7,591	63.39
Mashpee, .	+-	†	† -	+	†	-
Orleans,	243,165	140,100	— 42.38	23,375	31,932	+ 36.61
Provincetown,	411,963	118,054	— 71.34	42,923	27,795	- 35.24
Sandwich, .	426,955	146,763	65.63	176,360	45,309	— 74.31
Truro,	+ -	† -	-	+	†	i -
Wellfleet, .	61,811	13,770	— 77.72	7,030	1,618	— 76.98
Yarmouth, .	64,038	25,170	— 60.70	13,202	5,433	58.85

^{*} No returns for wages paid. \dagger Figures omitted to avoid disclosing facts concerning individual establishments. A decline was shown in 1895 in both towns.

		TOTAL AMOU		TOTAL VALUE OF	OCK USED	VALUE OF ST
1	1895	1885	1895	1885	1895	1885
] 1	\$258,675	\$ 391,437	\$1,160,492	\$2,513,206	\$558,679	\$1,263,861
2	52,428	25,589	256,631	103,305	105,546	38,737
1 8	21,039	12,730	143,425	69,337	106,917	47,913
4	750	389	10,302	7,137	5,034	1,917
1	8,287	2,177	35,119	27,576	12,788	10,376
1	11,824	10,296	50,153	81,809	23,165	40,965
7	-	•_	-	5,860	-	1,420
1	41,369	56,630	144,584	902,555	68,362	564,195
1	7,591	20,736	52,964	83,431	25,381	37,086
10	† —	←	 	t-	† —	† —
11	31,932	23,375	140,100	243,165	78,482	195,209
12	27,795	42,923	118,054	411,963	44,518	118,613
13	45,309	176,360	146,763	426,955	63,914	158,907
14	t-	←	t	†	+—	t-
18	1,618	7,030	13,770	61,811	7,764	28,655
10	5,433	13,202	25,170	64,038	7,196	19,718

Statistics of Manufactures.

The value of goods made and work done has declined in Dennis, Falmouth, Harwich, Mashpee, Orleans, Provincetown, Sandwich, Truro, Wellfleet, and Yarmouth, and disappeared altogether in Eastham; while on the other hand, an increase appears in Barnstable, Bourne, Brewster, and Chatham.

A decline in the amount paid in wages appears in Falmouth, Harwich, Mashpee, Provincetown, Sandwich, Truro, Wellfleet, and Yarmouth; and an increase is shown in Barnstable, Bourne, Brewster, Chatham, Dennis, and Orleans. The decline in many instances is quite serious, and of course accounts for the aggregate decline shown for the county as a whole; the loss, in such towns as show loss, not being entirely offset by the increases in such towns as show an increase.

The reasons for the changes that have taken place in the manufacturing industries of the Cape towns are partly shown in the following statement: In Barnstable, a corporation engaged in the manufacture of fertilizers in 1885, was out of business in 1895; in Dennis, there has been a decline in building, metal working, and in establishments devoted to the preparation of fish for the market and classed under the head of

^{*} No returns for "total amount paid in wages."

[†] Figures omitted in order to avoid disclosing facts concerning individual establishments.

manufactures of food preparations; in Falmouth, there has been a decline in the manufacture of fertilizers, and also a stoppage of a small woollen mill which was in existence in 1885; in Harwich, a decline appears in food preparations, and in metal working: the decline in Provincetown is due to diminished production of food preparations, based on the fisheries: in Sandwich, metal working, glass, and a woodworking establishment, existing in 1885, do not appear in 1895; the decline in Truro is due to the depression in the fisheries, causing a corresponding decline in the manufacture of food preparations. based upon them; the same remark applies to Wellfleet, while seven establishments, engaged in shipbuilding in 1885, do not now appear. The increase in product and in wages, shown in Brewster, is of small account. The increase in Chatham is due to an increase in building, during the Census year 1895: and this is also true of the increase shown in Barnstable. increase in Bourne is due to the legitimate expansion of industries which existed in 1885.

The condition of the fisheries is reflected in the tables which follow, the first of which relates to capital invested:

The Fisheries: Capital Invested.

Тив Соп	NTT	AWD	Tow	va.		1885	1895	Increase (+), or Decrease (-), in 1895 as Compared with 1985			
112 000	~11	, AAD	10#			1000	1000	Amounts		Percentages	
Тн	s C	OUNT	Y.			\$1,941,921	\$ 692,456	-\$	1,249,465	-64.34	
Barnstable,						41,894	28,837	_	13,057	-31.17	
Bourne, .						40,787	49,777	+	8,990	+22.04	
Brewster, .						11,900	5,817	 	6,083	-51.12	
Chatham, .						116,785	77,509	_	39,276	-33.63	
Dennis, .						78,494	29,827	_	48,667	-62.00	
Eastham, .						39,438	10,240	_	29,198	-74.04	
Falmouth,						34,987	21,058		13,929	39.81	
Harwich, .						112,052	7,312		104,740	-93.47	
Mashpee, .						4,210	1,892		2,318	-55.06	
Orleans, .						6,431	1,501	_	4,930	—76.66	
Provincetown,						927,891	305,145	!! —	622,746	67.11	
Sandwich,						3,910	7,668	+	3,758	+96.11	
Truro, .						86,103	94,177	+	8,074	+ 9.38	
Wellfleet, .						429,534	44,602	_	384,932	-89.62	
Yarmouth,		•	•	•	•	7,505	7,094	-	411	- 5.48	

The fisheries have long been the main reliance of the Cape towns. In 1885, the capital invested in the county was \$1,941,-921; in 1895, it was but \$692,456, a decline of \$1,249,465, or 64.34 per cent. There are but three towns in the county in which an increase appears; these are Bourne, Sandwich, and Truro. These are not the leading fishing towns, however. Provincetown leads all others in the extent of its fisheries, and here the capital invested shows a decrease of 67.11 per cent. Next to Provincetown stands Wellfleet. In this town the capital declined 89.62 per cent. In Chatham, which stood next to these towns in the amount of capitalization in 1885, there has been a decline of 33.63 per cent; and in Harwich, a decline of 93.47 per cent.

The next table shows the product in each Census year.

Тив Со	UNTT	, AND	Town	T8.		1885	1895	Increase (+), or Decrease (-), in 1895 as Compared with 1885			
		,				\$1,245,3 19		Amounts	Percentages		
T	нв (COUNT	r¥.				\$748,252	\$497,067	39.91		
Barnstable,						38,289	27,212	11,077	28.93		
Bourne, .						24,418	30,690	+ 6,272	+ 25.69		
Brewster, .					•	15,411	5,817	- 9,594	- 62.25		
Chatham, .					•	98,322	82,867	- 15,455	- 15.72		
Dennis, .						47,395	20,585	- 26,810	56.57		
Rastham, .						39,453	8,666	30,787	78.03		
Falmouth,			•			16,078	21,554	+ 5,476	+ 84.06		
Harwich, .						55,691	8,354	— 47,337	85.00		
Mashpee, .	•					1,027	3,720	+ 2,693	+262.22		
Orleans, .					•	6,256	4,832	- 1,424	_ 22.76		
Provincetown	D, .					628,454	434,487	193,967	- 30.86		
Sandwich,			•			12,000	4,772	_ 7,228	- 60.23		
Truro, .						89,508	43,431	- 46,077	51.48		
Wellfleet, .						165,874	40,551	- 125,323	75.55		
Yarmouth,	•	•	•	•	•	7,143	10,714	+ 3,571	+ 49.99		
							1	11	•		

The Fisheries: Value of Products.

In 1885, the total product of the county was \$1,245,319; in 1895, it was but \$748,252, a decline of \$497,067, or 39.91 per cent. There are four towns in which increases appear; these are Bourne, in which the increase was \$6,272, or 25.69 per cent; Falmouth, showing an increase of \$5,476, or 34.06 per cent;

Mashpee, the increase being \$2,693, or 262.22 per cent; and Yarmouth, in which there was an increase of \$3,571, or 49.99 per cent. As was shown respecting the increase in capitalization, these figures likewise indicate that the increase in product, which appears, is not in the chief fishing towns. In Provincetown there has been a decline in product from \$628,454 to \$434,487, the decrease amounting to \$193,967, or 30.86 per cent; in Wellfleet, the decline is from \$165,874 to \$40,551, or 75.55 per cent; in Chatham, from \$98,322 to \$82,867, or 15.72 per cent; in Harwich, from \$55,691 to \$8,354, or 85 per cent.

The year 1895 was undoubtedly a year of unusual depression in the fishing industry, while it is possible that the year 1885 may have been unusually successful. Nevertheless, it is impossible to scan these figures without concluding that the fishing industry of the Cape, as a whole, exhibits a marked and serious decline during the 10 years under consideration.

DETAILED TOWN STATEMENTS.

The agents of the Bureau have visited the towns upon the Cape, and have endeavored to come into sympathetic contact with the different interests involved in the investigation. statistics which have been presented give definite data respecting the social and industrial status of the county, so far as the same can be shown by figures; there are, nevertheless, details which cannot be tabulated, but which are important, and in-These details are supplied by the interviews deed essential. which the agents of the Bureau have held with persons in each town, whose lifelong residence upon the Cape fitted them to give pertinent and trustworthy testimony. From material collected in these interviews, supplemented by the personal observation of our agents, one of whom was himself an old resident, perfectly familiar with the history, traditions, and present condition of the towns, the following condensed notes are presented, in words substantially as submitted to the Bureau:

Provincetown.—The population of Provincetown is principally engaged in fishing from the shore, and as employés on weirs and traps, also on vessels owned locally or otherwise. Many of the persons so employed are Portuguese or of Portuguese descent (Western Islanders). What is known as salt

fishing is declining, the product imported from Nova Scotia being put on the market at rates lower than it is possible to meet upon the Cape. There are two canning establishments. When herring are plenty, these employ from 150 to 200 hands. The work is of a very intermittent nature owing to the uncertain supply of the fish. Little or no farming is done in the town. On the Province Lands (referred to hereinafter) there are a few wild cranberry meadows, in poor condition. Little salt hay is cut. The soil is composed of sand of so porous a nature that it requires much and constant fertilization. Gardens are sometimes made of soil which is composed of sods taken from Province Lands and beaten to a powder. The milk supply is obtained chiefly from Truro and North Eastham.

Truro.—The principal industry in the town of Truro is fishing. There is a cold storage plant at North Truro, but weirs and traps with a little fishing from the shore, are the principal source of income. The catching of eels in fyke nets in the meadows has recently become of some importance. The soil is of a sand-mica formation; in the hollows between the hills it is very rich, and is suitable for raising vegetables. A few farmers keep cows and supply Provincetown with milk. There are many empty houses in Truro. During the last two or three years an attempt has been made by a New York syndicate, with partial success, to develop this town as a summer resort.

Wellfleet. — Boston firms own many oyster beds here, and they employ a considerable number of men. Quahaugs and clams abound in large quantities. Almost the entire male population is engaged in this industry (shell fishing). For the past three years, weir fishing has been carried on here at a loss. Only two mackerel fishermen are left, out of a fleet of 63 vessels which existed 10 years ago. There are a few cranberry bogs in Wellfleet; but the agriculture of the town is of little importance.

Eastham. — Nearly all the land of any agricultural value is devoted to asparagus, one concern alone cultivating 25 acres of it. Good prices have been the rule until this year, and the business has been profitable. Turnips, of what is known as the ruta-baga species, and a good white variety, do especially

well in the soil here, which is sandy and of a light red color, easy to work, but holding moisture in the driest summer. The population of this town is composed largely of Americans. Eastham is growing in favor as a summer resort.

Orleans. — There is a factory in this town that manufactures clothing. This employs at times, quite a number of people. A new industry has sprung up, that of collecting seaweed for the purpose of making paper, and a material known as sheathing quilt, used in the building industry for deadening sound and lining walls. A little fishing remains (quahaugs mostly). The town is growing in popularity as a summer resort. The soil is a light sandy clay. The population is largely American.

Brewster. — Very little farming is done in this town. In some places the soil is good; in others, a mass of rocks. There is, however, quite a large number of cranberry bogs. The inhabitants are largely Americans. What little fishing remains now consists mostly of quahaugs. Many residents formerly followed the sea, but have now retired from active life.

Dennis: North, South, East, and West; and Dennisport. — The soil is light here, and of such a nature that the effect of fertilizers is lost in about a year. There are many cranberry bogs in different parts of the town. Very little fishing remains, principally confined to supplying the summer hotels in the immediate neighborhood. The inhabitants are principally Americans. A large number of retired people live here, including many sea captains. The villages of West Dennis and Dennisport are growing rapidly into favor as summer resorts.

Chatham. — Very few towns in Barnstable county can show as flourishing a condition as Chatham. It is very well known as a summer resort. There are few Portuguese in this town. The soil is a light clay. Scolloping, oyster culture, and cod fishing on very small vessels (five tons and under), constitute the principal occupations of the inhabitants. If a better harbor existed, and one might be made by dredging at very small expense, this town would again occupy a leading place as a fishing town, as there is no good harbor from Provincetown to Hyannis.

Harwich: Harwichport and South Harwich. — These are summer resorts. Cranberry bogs are numerous. The soil

being of a sandy clay nature is very poor. Very little farming and very little fishing exist. The inhabitants are mostly retired seafaring men.

Yarmouth. — There is a large number of cranberry bogs in this town. The acreage devoted to cranberry bogs is rapidly increasing, over 40 acres of new bog being made last year. There is little or no farming carried on, and very few agricultural products are raised except for private consumption. The cultivation of cranberries, cutting stone, and working on the two new sections of the State road are the principal occupations of the inhabitants of Yarmouth. From South Yarmouth large quantities of eels are shipped. The population is mostly native, and very few Portuguese are found here. There is very little fishing owing to there being no good harbor. A great deal of real estate is owned by non-residents who keep their houses closed the year round.

Barnstable. — This town is the capital of the county. The centre of activity is found in Hyannis, the railroad terminus, which has an increasing population. A State Normal School has recently been erected. The villages of Osterville, Centreville, Cotuit, Craigville, Marston's Mills, etc., attract a large summer population. There is very little fishing in this town, although there is considerable oyster and shell fishing carried on at Cotuit. Farming consists almost wholly of raising garden truck for which there is an ever-increasing demand in the summer months. There are also many cranberry bogs in Barnstable. The inhabitants are mostly native born. On the south side, land is comparatively high in value; and on the east side is being rapidly developed.

Mashpee. — There is very little farming of any kind carried on in Mashpee. The cultivation of cranberries is the principal occupation of the inhabitants. The cranberry bogs are mostly owned by non-residents. The inhabitants support themselves by working out, and by a little fishing. The remote situation of this town prevents its development.

Sandwich.—This town, since the decline in the glass industry, has little industrial importance, the culture of the cranberry and a little general agriculture being its sole reliance.

Bourne. — Bourne has only been incorporated out of a part of Sandwich since 1884, and in that time has, upon the south

side, increased in importance as a summer resort. Outside of the cultivation of cranberries, work furnished by summer residents, and such oyster and shell fishing as is carried on at Monument Beach and Buzzard's Bay, there is little or no employment for the people. There are numerous cranberry bogs. Generally speaking, the land is well suited for farming purposes, except on high ground. The present railway freight rates are said to preclude the possibility of anybody remaining in the business of farming. A bushel of potatoes can be shipped from Aroostook County, Maine, to Boston for three and one-third cents less than it can be sent from the town of Bourne. The foreign element is very small in this town.

Falmouth. — A number of persons are engaged in farming here, there being a good summer market. The lobster fisheries are of some importance. Wood's Holl, a village of Falmouth, has many summer residents. Waquoit, another village of this town, has an increasing oyster business; over \$100,000, so it is estimated, has been received in this little village for oysters in the past 10 years.

The three towns at the extreme end of the Cape, being from their situation more remote than the others from the mainland, possibly require a little fuller treatment than is given them in these brief notes. These towns are Provincetown, Truro, and Wellfleet. Two of them, Provincetown and Truro, have, as we have shown, received considerable accessions from the Western Islands.

PROVINCETOWN.

Provincetown differs very much from the other Cape towns, as it has a very fine harbor, one of the finest in the country. It has been one of the most important fishing towns, carrying on all the branches of the industry. For years it stood second to Gloucester in the cod fishery, having also a large fleet of mackerel catchers, a considerable number of fishermen taking fresh fish for the market, and a numerous fleet of small boats engaged in the shore fisheries. When these were all prosperous they gave employment to a large number of men who were employed in manning the vessels, and in curing, packing, and shipping the fish to market. Vessels were built here for fishing and whaling. A large number of fitting stores, connected

with the long wharves, lined the whole harbor front. The town was then an active place. It was the scene of continual bustle, the fleets fitting out in the spring, to return in the autumn laden with full catches. Many mechanics, including ship carpenters, calkers, painters, riggers, sail makers, and blacksmiths were employed in building and repairing this fleet. At one time there were three marine railways for hauling out and repairing not only local vessels, but those from the other Cape towns. Now, in place of all this activity, we find the fleets absent, the wharves fast going to decay, and two of the marine railways rotting and falling down: the third, recently sold for taxes, must eventually share the fate of the others. The failure of fishing firms has caused the loss of much capital. resulting in depriving many of employment. The low price of oil has ruined the whaling industry. At present the fleet. except one vessel, is at the wharves waiting for better times and an improvement in the market. The Banks' cod fishery has also been ruined by low prices, scarcity of fish, the introduction of larger and more expensive vessels, and enlarged cost of fittings. The decay of the mackerel fleet is due solely to the disappearance of the fish. The larger and finer boats taking fresh fish for the market do fairly well, while the smaller frequently fall in debt and are sold.

The numerous small boats, which have furnished employment to so large a number of native-born men, now find their opportunity gone. At this season of the year (November), they expect great runs of mackerel caught in set nets; but this year and the last have been failures. This is attributed to the use of fish traps, as large quantities of small fish are destroyed every year. These traps line the shore so thickly that no fish escape. Those opposed to the use of fish traps have endeavored to have them prohibited by law, but so far without success.

The men engaged in the whale and mackerel fisheries and the shore fishermen are mostly native born. The cod fishermen are largely British Americans, and the fishermen supplying fresh fish for the market are mostly Western Islanders. The foreigners do not compete with the natives as to wages, as most of the fishing is carried on in shares. They do not drive out the natives so far as observed. That which is most injurious is the small profit, and the young persons wish to quit the sea

and go to the larger towns for employment. The system of education in use in the schools is thought by some to be out of sympathy with the fishermen's life. It tends to stimulate a desire on the part of the young to get away from the sea; it unfits them for a rough sea life, and they seek a business that has less hardship in it.

For the past few years the fisheries have decayed very rapidly, owing to small fares and inadequate cash returns. This has brought the vessels in debt, pushing the fishing firms into bankruptcy, and resulting in the sale of the fishing craft and their removal from the town. There is another thing which has caused this decadence, namely, the credit system which has been in vogue from the beginning. It worked well when the fisheries were profitable, but when they became unprofitable it proved disastrous. The native-born young men, discouraged, have at last left the industry and gone elsewhere.

Some years ago, out-of-town parties, with the help of home capital, ran a small shoe factory for a year or so, which proved a complete and disastrous failure, resulting in the loss of all invested capital. At a later period, a shirt factory was built and run successfully for some time, giving opportunity for employment to young women and proving a benefit to the town. General business depression has caused it to be closed for about a year. There is now a prospect of re-opening. There are two factories for canning fish taken from the traps, and a cold storage plant for freezing, which is doing well. These, with several fish traps, a few cranberry bogs, and a small lot of reclaimed swamp land back of the town, constitute the visible industrial resources of the town.

The reclaimed land and sandy soil could be made to yield more than at present with capital, labor, and irrigation. This soil, mixed with the brush-sod of the back hills, which is decayed vegetable matter, with plenty of water, affords good vegetable gardens. The Western Islanders take to gardening readily. The soil yields well under proper cultivation, the low lying gardens producing abundantly all kinds of vegetables, of a better flavor than those raised in a colder and stiffer soil. A reclaimed swamp garden, owned by a native, containing about an acre, gave its owner a living from its yield of vegetables and small fruits, for which there is always a ready market.

Irrigation was maintained from two shallow driven wells. The land being low, water is abundant all over the town. There are a number of fresh-water ponds in the back part of the township, some of them quite largely stocked with pickerel. During the year 1896, a small quantity of carp has been introduced. These ponds also yield large harvests of ice in good seasons, to supply home consumption, and furnish the fishermen with ice to pack their fish for market. There is also an abundance of berries growing on the hillsides back of the town, largely picked by the women of the Western Islands, the crop in good seasons proving of value to them. The Western Island women of Provincetown make good servants, excellent seamstresses, and they are faithful and obliging.

A correspondent writes: "I have seen much of the homes of the Western Islanders. I find the better class lives very much as the natives do. They are quick to imitate native manners and live on smaller incomes. There is another class which does not live so well; they are more like tenement dwellers in cities.

"What is to be the future condition of the fisheries in Provincetown is quite a problem. The outlook at the present time is dark. The fishing season, now fast drawing to a close (November, 1896), has proved very disastrous. I should not be surprised when the spring opens to see a large exodus from this place of persons who wish to better their condition. Hereafter the fisheries from this town must be largely carried on by foreigners, as the natives are gradually leaving the business, and there are no others to take their places. For the past few years there has been a growing desire on the part of the city and country people to visit this town in the summer months. With better hotel and steamboat accommodations, it would seem that travel could be increased, and this town be made into a great watering place.

"We have one of the finest harbors on the coast, with cool sea breezes, as the winds always blow from the bay or ocean, and fine harbor, bay, and ocean beaches. I do not know where there is another beach in the Atlantic States, attached to the mainland, which is so long, and at the same time so straight and completely uninterrupted by creeks or coves, or fresh water rivers, or marshes, as Cape Cod beach, so called, ex-

tending without a break for a distance of 30 miles, from Race Point Light, Provincetown, to Nauset Lights, Eastham.

"The time must come when this coast will be a place of resort for those who really wish to visit the seaside. The State has for the past few years taken charge of its Province Lands in this township. They have made new roads through this desert land for the purpose of connecting this outer beach with the town. The superintendent of this land informed me that there were now opened good roads for a distance of 12 or more miles. This, with the fine bathing, boating, and sailing in the broad harbor, with the fine fresh fish, which can be taken at all seasons in small quantities, will prove attractive to many in years to come. While the decay of the fisheries is sadly perceptible, I feel there is yet some hope for the future."

TRURO.

Truro differs much from Provincetown, as it has neither harbor nor fishing vessels. Instead, we find a long bay with shallow water, well adapted to fish weirs or traps, which completely line the shore, supplying fish for the market, and furnishing bait for the fishing vessels of Boston, Gloucester, Provincetown, and other places. This for a number of years has been a paying industry, but during the last year or two results have been poor. Formerly this town had a small tide harbor at the mouth of Pamet River, where quite a fleet of small mackerel fishing vessels was built and owned. These were for a long time successful, but when the harbor became filled with sand, as such harbors usually do, they went to other places where harbors were better adapted to the business. Finally, when the mackerel fisheries failed, the fishermen turned their attention to fish weirs or traps. It is a new method of taking fish in this section, and does not occupy all the time of the men. Most of them cultivate gardens, and find a ready market for their produce in the neighboring towns. The Western Islanders form a large part of the crews engaged on these weirs. The women are very industrious out of doors as well as in.

The large fresh-water pond near the Highlands or Highhead of Truro, called East Harbor, was enclosed with a dyke by the State in 1869. This dyke is crossed by the railroad near Provincetown. The year before, 1868, the national government

placed a dyke at the upper end of this pond to protect the harbor of Provincetown from the encroachment of the ocean on the outer beach, as it had broken through several times. dyke had a sluiceway to drain off the water from the upper meadow. The lower, or State dyke, is a closed one, and since it was built it has operated to collect sand on the bayside, until there is now a wide beach. The average depth of this pond is about six feet. The water in the pond comes from these Highlands, as they form a perfect water-shed, being composed largely of clay and a heavy loam. There are springs running out from the Highlands, seen mostly in the summer when the pond is On the Highlands there are fine farms, under a good state of cultivation. The large pond of fresh water near them might be utilized in irrigation. Irrigation has never been tried in Truro. The land at the Highlands is owned and cultivated by natives, the Western Islanders having never settled there.

Different opinions are expressed as to the effect of the closed dyke upon the meadow above. Some think it has been detrimental, causing the loss of the salt hay which was utilized for cattle, the marsh now being overrun with flags and other wild growths. Others think the fresh meadow has been of some value. It requires considerable labor to maintain the dyke. Along the edges there are some wet gardens.

At North Truro what was once a large pond or swamp has been filled in quite extensively from time to time. It has proved a good meadow, and maintains vegetable gardens in dry season. Part of this was made into cranberry bogs with fair success. This village seems prosperous, and is the headquarters of a number of fish weirs, with a cold storage plant for freezing fresh fish, and a fish canning factory. The residents are largely interested in farming as well as fishing. For a number of years after these fish weirs were established they were very successful; for the past two or three years the con-Whether this means that the fish weirs are detrary is true. stroying the fisheries remains to be seen; but the question is troubling the fishermen of the Cape exceedingly. stop to this mode of fishing, however, means interference with the employment of a large number of fishermen. The other parts of the town are more or less engaged in the same kind of fishing.

The village situated between North Truro and Longnook is largely settled by Western Islanders. They have very comfortable homes, and are said to keep them in better repair than the former residents. They are mostly engaged in fishing and farming. They show an aptitude for certain branches of agriculture. They are not all confined to this village, but have settled in all parts of the town. Wherever they find a cheap place for sale they buy it, and the women being industrious largely assist in the general support of the family. It does not appear that the new comers compete with the old residents in the way of wages, but it is plain that they can live on a lower income, and will thrive where a native would not be contented. It is evident that the native-born young men have gone to the larger towns, leaving their fathers' places vacant.

In investigations upon the Pamet River, it was found that the dyke was built in 1869 by the town of Truro for a highway, in place of the old wooden bridge. Its effect upon the salt meadow is said to be unfavorable, as this meadow is now overrun with flags. The river banks, however, and some of the upper meadows have been made into fine gardens, which even in dry seasons do well. Some of the marsh has been turned into cranberry bogs, but they were not a success. On the south bank of this river above the dyke the soil is considered good, and most of these places are occupied by the Western Islanders. In the southern part of the town, much the same conditions obtain as elsewhere, a large part of the inhabitants being aged, and as they pass away their places are taken by new comers.

WELLFLEET.

The town of Wellfleet, like most other towns of the Cape, was at one time largely engaged in the mackerel fisheries. It had a large fleet of fine schooners, which employed many fishermen. The industry also gave employment to many men in packing and handling the large quantities of fish brought in at their wharves, and to many mechanics who were employed on the vessels in making repairs, such as ship carpenters, painters, calkers, riggers, block makers, and sail makers. During the past few years the fisheries have decayed very rapidly, and at this time very few vessels are employed in the business, and they are having very poor success. Old residents say that the

oyster culture, which is one of the industries of the place, is still profitable, and a great help to the town. There is also a razor strop factory which employs a few hands. Except the cultivation of a number of small garden lots, and a few cranberry bogs, these seem to be all the industries of the town.

Duck Harbor was investigated as to its capacity as a shelter for shore fishermen. At one time it was a very useful harbor at high tide for fishermen upon small vessels to run into and land their fish, and to haul up their boats for the winter. Several years ago, however, it was obstructed by the sand, and since then has remained closed.

The next point of investigation was Herring Brook, or River. This is a stream flowing into Wellfleet Harbor. At high tide it becomes a river, while at low water it is but a creek. Its course lies through wide marsh land in the northern part of the town, for a distance of several miles from its source in a chain of several ponds. This brook has for many years been a source of profit, the annual run of herring to the ponds above to deposit spawn yielding an unfailing revenue. marsh land bordering the stream is mostly salt, with now and then a place dyked off into fresh meadow or swamp garden. Much more could be dyked to good advantage, and much that is already dyked has been neglected. One large arm of this meadow, in the extreme northwestern part of the town and partly in the town of Truro was dyked, according to old residents, about 100 years ago by a company. For years it was very profitable, but, as the older inhabitants died, it became neglected, and now a large part of it has become worthless. There are also a number of clay banks or mud mines scattered all along the course of Herring Brook, and, but a short distance from it, on higher ground, a hard, stiff, blue clay and a number of banks of red loam which are easy of access.

The reclaiming of swamp land for cranberry bogs has not been made profitable here, owing to lack of knowledge as to the proper method of cultivation, such as fertilizing and irrigating the bogs. Irrigation has never been tried in Wellfleet, except in the village, where there are windmills which have proved very successful in irrigating small gardens and lawns. These mills draw water from artesian wells at a depth of 15 to 30 feet.

Very few Western Islanders have settled in Wellfleet, and these are mainly employed on the railroad as section hands. They are generally sober and industrious. There are comparatively few persons of foreign birth in the town. The tendency on the part of the younger persons to leave the town for more active industrial centres is quite marked.

The chain of ponds in the northeastern part of the town. which is the source of Herring Brook, is composed of fine sheets of fresh water, connected by sluiceways to permit the herring to run up and spawn. These ponds seem to be quite deep, with sandy shores, and a moderate current flowing from them into the brook at all times. The run of herring is said to have increased very much in the past few years, owing to the better care which has been taken of the brook so as to keep it open from the ponds. There were formerly quite large settlements near these ponds, but as the older people passed away, the houses have gone to decay, and now but few remain. In the valley there is very good farming land, and the ponds afford an inexhaustible supply of good, fresh water. In this section of the town there are not as many clay banks as elsewhere, but they are scattered more or less over the entire town. uplands have a light, sandy soil, thickly covered with a small growth of oak and native pine. Near the ponds there are several high hills. In South Wellfleet there is much salt marsh, some of it dvked off into cranberry bogs, but with indifferent success. One large bog, formed at a great expense. and with provision for flowage, has proved a failure. land, other than the marsh, is very high and sandy, with very few ponds. In the most southern part it consists of high level ground with poor soil, but it could be made to yield asparagus with the aid of fertilizers. While driven wells are the main source of water supply, there is one flowing spring, the water of which is bottled and marketed.

THE WESTERN ISLANDERS.

Before commenting on the figures and statements so far presented, which show very fully the condition of the towns, there are other subjects, within the scope of the investigation, that require attention.

It is apparent that the Western Island Portuguese are becoming an important factor in the social and industrial life of certain sections of the Cape. It may be well to examine somewhat closely their characteristics.

Under the general head of "Western Islanders" have been included, for the purpose of this investigation, such natives of the Cape Verde Islands as have come to Barnstable County. although, strictly speaking, the Azores alone constitute what are generally termed the Western Islands. Both the Azores and the Cape Verde Islands are under the dominion of Portugal, both being located in the Atlantic, the first named group 500 miles west of Portugal, and the other 320 miles west of Cape Verde. The Azores are the more northern, as well as the more populous, their position being between 36° 55' and 39° 44' north latitude, and between 25° 10' and 31° 16' west longitude. The Cape Verde Islands, on the other hand, lie between 14° 47' and 17° 12' north latitude, and between 22° 45' and 25° 25' west longitude; and comprise 14 islands, not all inhabited, having an aggregate area of 1.650 square miles. The Azores comprise three groups of islands, the groups being separated by distances of from 70 to 114 miles. Both the Azores and the Cape Verde Islands are of volcanic origin, with fertile soil, imperfectly cultivated, and adapted to the sugar cane, coffee, and other tropical products.

The Azores have been held by Portugal since 1449. The inhabitants are Portuguese in origin, modified in certain respects by their insular environment. Owing to the system of land tenure, and the restrictions due to the survival of feudal customs, improvement in methods of agriculture is practically impossible, and the opportunities for improving the social and economic conditions of the people correspondingly limited. In proportion to the means of subsistence the islands are overpopulated. As might be expected, therefore, emigration is now continuous, and the United States offers an especially inviting field. Here there is opportunity; and industry, with the frugality to which they are accustomed, meets an adequate reward. The abandoned lands upon Cape Cod, cheap, near the shore, and near the point of arrival, give them a foothold far superior to that at home, notwithstanding the

differences of climate; and there is also employment in the fisheries.

A visitor to the Azores, who is also a careful and intelligent observer, speaks as follows of the conditions under which emigration was proceeding in 1886: *

Emigration, generally clandestine, has of late years greatly relieved the necessitous condition of these poor islanders, but the difficulties in the way of the overplus population seeking their fortunes elsewhere have been increased by a law passed in the Cortes in 1880, compelling all males, on attaining the age of 14, to deposit £40 with the State, before being allowed to leave the country; this sum being kept in pawn with a view to providing a military substitute, should the emigrant not return when required to undergo the period of service in the army all Portuguese are liable to.

The stream of emigration from the three most eastern islands of S. Miguel, Santa Maria and Terceira, has through accidental circumstances generally proceeded steadily to Brazil, whereas that from the westernmost islands of Fayal, San Jorge and Flores is directed mainly to the United States, whilst Madeira, singularly enough, contributes a by no means insignificant quota to the Sandwich Islands, where the number of Portuguese (chiefly from Madeira and the Azores) had in 1884 reached 9,000, as against 436 in 1879.

The total annual emigration from this archipelago fluctuates between two and three thousand of both sexes, but is continuous. Besides the English, German and Portuguese steamers which occasionally call at these islands for their living freights, there are three or four sailing vessels employed between them and Boston and New Bedford, U. S., carrying each about 170 passengers, and making five or six voyages in the year.

The amounts remitted by successful emigrants to their friends in the islands are very considerable. The fortunes of Terceira have of recent years positively revived under this influence, and Fayal alone receives in some years as much as £20,000 of savings from the Western States. I have seen it stated in a generally well-informed native paper, that the sums remitted to these islands by absent colonists have occasionally amounted to 300 contos or £53,600, but this must be an exaggerated or very exceptional estimate.

The emigrants from the Azores ever retain an affectionate remembrance of their former homes, and unless prevented by family ties, return, sometimes with considerable fortunes, to end their days here. I once met a man on board the "Açor," who had been away in one of the Western States for 25 years and was visiting Fayal to see his friends. He had forgotten every word of Portuguese except "Saudades,"† for his native place, which he felt must be satisfied at any cost.

^{*} The Azores; William Frederick Walker, F. R. G. S., etc.; London, Trübner & Co., 1886; pp. 107, 108, and 109. † Indicating ardent desire or longing for one's home.

Every steamer from Lisbon carries as passengers to the islands, one or more of these fortunate emigrants returning home with their "little pile," after an absence of many years in the United States or Brazil.

Although there is no permanent line of packets, sailing at fixed times between New Bedford and the Azores and Cape Verde Islands, there are five or six vessels which make regular trips, some sailing twice each year. They carry out as freight, principally, stores for whaling vessels; and bring in, on the return passage, oil from American whaleships, salt, and goat skins. Most of the vessels employed are schooners owned at the Islands, supplemented occasionally by a Portuguese steamer. Through the courtesy of Zephaniah W. Pease, Esq., Collector of the Port of New Bedford, the information contained in the following table is presented, showing the arrivals at New Bedford of immigrants from the Western Islands, (including, as previously stated, the Cape Verde group) for a series of years, classified by age periods and sex:

Arrivals at the Port of New Bedford from the Western Islands: By Years,

Age Periods, and Sex.

			Und	ER 15		BCT ER 40	40 AX	D OVER	TOTALS		
Yı	LARS.		Males	Females	Males	Females	Males	Females	Males	Females	Both Sexes
1891,	•	•	42	34	370	132	20	19	432	185	617
1892,			48	32	276	76	25	12	349	120	469
1893,			14	23	137	38	20	10	171	71	242
1894,			3	6	80	15	10	2	93	23	116
1895,			34	89	128	105	21	13	183	157	340
1896,	•	•	10	16	100	43	18	7	128	66	194
To	TALS,		151	150	1,091	409	114	63	1,356	622	1,978

In the aggregate, 1,978 persons are included; the number of arrivals being greater in the early than in the later years. The males are considerably in excess, numbering 1,356, as against 622 females. As to ages, those 15 years but under 40 are most numerous, this period including 1,091 males and 409 females. The children, that is, persons under 15, comprise 151 males and 150 females; while persons 40 years of age and over include 114 males and 63 females.

During the same years covered by this table a certain number of these immigrants have no doubt returned. Indeed it is not unlikely that the passage to and from the islands may have been made more than once by the same persons. No record upon this point is kept, but the following table shows the number who have sailed from New Bedford to the islands, by years, classified, as in the preceding table, by age periods and sex:

Departures from the Port of New Bedford for the Western Islands: By Years. Age Periods, and Sex.

			Und	ER 15	UND	15 BUT NDER 46 49 AND OVER			TOTALS			
XI	ARS.		Males	Females	Males	Females	Males	Females	Males	Females	Both Sexes	
1891,			19	15	135	46	39	8	193	69	262	
1892,	•		-	-	61	7	11	2	72	9	81	
1893,	•			2	90	5	17	1	107	8	115	
1894,			9	19	71	19	33	9	113	47	160	
1895,			3	2	52	6	7	3	62	11	73	
1896,			9	16	42	11	27	11	78	38	116	
To	TALS,		40	54	451	94	134	34	625	182	807	

The total number of returning passengers is 807, of whom 625 are males and 182 females. The excess of males in both entering and returning vessels, strengthens the probability that there is a movement to and from the islands, of men, either without families or who in the first coming did not bring wives with them. Of course there are other means of reaching southeastern Massachusetts from the Azores than the comparatively direct communication afforded by the vessels entering New Bedford. The figures cited, however, show something of the movement to and from the Western Islands at this, perhaps the chief port of entry.

The Portuguese who enter at this port or elsewhere, and who remain in Massachusetts, have in many cases engaged in agriculture in the vicinity of New Bedford, and have been distributed upon the Cape as has been shown. They are generally law-abiding, industrious, and thrifty. Incidental statements respecting their habits have been given in the reports relating to the Cape towns. They do not recruit the army of tramps.

They are here for work, and to improve their condition. In taking testimony relative to the state of farm labor in Massachusetts, the Commission on the Unemployed had before them a witness from New Bedford, whose testimony is especially pertinent here. Upon the subject of unskilled labor in that vicinity the questions and replies were as follows:

- Q. Is this unskilled labor mostly made up of foreigners? A. It is very noticeable in all the country round here; almost every farmer you see is a Portuguese.*
- Q. How far from New Bedford should you say the Portuguese had gone on to farms? A. I really could not say. I have found them out five or 10 miles. They get to owning their own farms. They are very thrifty.
- Q. When did they begin to go on farms here? A. I could not say,—
 for some time; they have a regular ticket line here; I should say for fully
 10 years.
- Q. Do you know whether any more men would have been put on farms if such labor could be found? There is frequent complaint that farmers cannot get enough men to work for them. A. It is pretty hard work and very poor pay, and that is the reason these new comers are taken.

Again, Rev. I. H. Coe, Probation Officer at New Bedford, testifying relative to the nationalities of the tramps in that vicinity, stated that "The Portuguese were about as free from tramping as any nationality. They are generally very prudent, and good citizens."

It has been stated that there is a disposition on the part of emigrants who leave the Azores to return to their former homes. The Islanders who return from Brazil are known as "Brazileiros;" those from the United States, as "Americanos." Of the influence upon Azorean life of these two types, a Lisbon paper, the Commercio de Portugal, speaks as follows:

The "Americano" is a man strengthened in frame, with a mind braced by the grand intuitive feelings of goodness and sympathy. He possesses extreme application for work; his modest capital is consecrated to the honest transactions of industry and commerce. He understands the word family, educates his sons, is sober, intelligent, and externely liberal. His house is elegant, bathed by fresh air and light; it possesses that solid yet economical furniture which is characteristic of American habitations. Within resides a family, the members of which are beloved of one another,

[·] This is probably an exaggeration.

[†] Report on the Unemployed; Part V, page 95.

[‡] Ibid.; Part II, page 44.

and who work. The "Americano" in the Azores is a patriot. He is proud of having lived in the United States, and he nourishes the hope that those good and generous lands will one day be as free as those of the Great Republic. There are many people who regard the emancipation of the Azores as an Utopian idea, or at most as a threat to the metropolis. They are mistaken. Emancipation is a fact which is being prepared for by education in social institutions and by a certain culture many possess from long residence in the United States.

The "Brazileiro" in general is, um anemico, utterly devoid of good instincts, and without social education. He does not at first sight inspire great sympathies. He is the embodiment of laziness. No sooner has he arrived than his capital is employed in impudent stockjobbing. His idea is enjoyment—the enjoyment tainted by the brutality of an evil instinct. For him family has no charms nor sacred ties. Libertinism to him is not a thing repugnant and vile. Without any idea of religion, of country, or of family, the "Brazileiro" is an impious being. He speaks evil of all principles of truth and justice, "to give himself the airs" of a freethinker. From time to time he has the pretension to display greatness: he indulges in charity for vanity's sake, and bestows public alms upon the poor with great noise and ostentation. In the poor villages the "Brazileiro" is appreciated and judged by the amount of alms he bestows on the day of his "festa." Contrasted with the "Americano" the "Brazileiro" has only one preoccupying thought—the usurious and profitable employment of his capital.

The "Americano" is ever employed in the great initiatives of work; he introduces new machines, he seeks to make American products known, and, so to speak, to naturalize them. Not so the "Brazileiro;" he is all routine. He arrives, and the small glebe of land which belonged to him by patrimony continues to be scratched by the old useless plough; the agricultural processes continue to be the ones followed by the old forefathers. Nothing of innovations, nothing of studies, and nothing of work. We positively affirm that morally the influence of the "Brazileiro" has been as unfortunate to Azorean civilization as the moral and material influence of the "Americano" has been useful and profitable.

Making due allowance for a certain exuberance of rhetoric in this article, it is probably true that the superior influence of the North American environment, plainly shown in the character and conduct of the returned Azorean, has its effect in stimulating emigration to the United States, or is, at least, a determining factor in the choice of routes which the prospective emigrant must make.

No doubt the growing popularity of the Azores as a health resort, easily accessible from the northeastern states during the winter, has its influence in drawing attention to this country. The writer, already quoted,* throws some light upon the primitive habits of the Azorean at home, and these to a certain extent indicate what may be expected of him under such conditions as he must meet upon Cape Cod:

The economical propensities of these people are carried to an absurd extent; all natives of these islands of both sexes, of the working orders, go about barefooted, except on Sundays and high days, when the better-to-do amongst them don boots and shoes. On such occasions as these, or when attending a distant procession or market, the people of Agua de Pao would put on one boot or shoe, carrying the other under their arm. A new coat, also, they would turn inside out, so wearing it until almost threadbare; if asked why they did so, the reply would be, "to save and preserve the article."

Like the peasantry of France, these islanders are industrious and thrifty; in the ordinary way, laborers earn 10d. a day, and, during harvest-time, as much as 1s. 8d. to 2s. 2d.; women and strong lads earning 5d. per day. In some country places wages are still paid in kind—generally about a gallon of maize per man per day. Contracts for labor in kind are also not infrequent; for instance, separating the maize from the cob, for the sake of the latter, for purposes of fuel, &c.; beating out the lupin seed for the straw; making a wicker basket or hamper for the quantity of maize it will hold. This last expression recalling the old Arabic law, which condemned the slayer of a camel to pay a fine amounting to the quantity of wheat necessary to cover the carcass.

The women of these islands are extremely clever at all kinds of ornamental needlework, and excel in beautiful embroidery and lace in all conceivable designs, which their poverty compels them to sell at what appear to be absurdly low prices, thus enabling people to indulge in the most princely pillow-cases, toilet covers, and even towels, bordered in deep, elegant work.

The Azorean lavadeira, or laundress, is the cleverest of all her troublesome kind, and has achieved the secret of sending linen home as white as it is possible to get it; in this she is greatly assisted by a usually bright, hot sun, but chiefly by the "barella" process.

Linen to be washed is put into the large open wicker basket of the country, and a thick wood-ash lye spread over it, then boiling water is every now and then poured over this, and allowed to percolate slowly through: after a sufficient soaking, the things are taken out and thoroughly washed in running water, and although violently beaten and rolled against the abraded surface of large stones, the destruction is less than the boiling process of our laundress tribe at home, and the alkaloid properties of the barella lye, infinitely more effectual.

The disadvantage of long residence in isolated islands like these, is the

mental atrophy into which the people are liable to lapse, in the absence of some deterrent stimulus. This we ourselves observe nearer home in the Channel Islands. Here, however, if only to judge from the perpetual warfare carried on in the newspapers, which the frequent changes of Government and elections assist, wits appear sharp enough; indeed, it would be difficult to find in a limited community like this, the young generation of both sexes so well educated and talented.

THE PROVINCE LANDS.

The memorial upon which the present investigation is based. refers to the lands held by the Commonwealth in Province-This extensive tract, called "Province Lands," was purchased from the Indians in 1654, "or sometime before that date," in behalf of the Government and Colony of New Plymouth, "for the said Colonevs use," the consideration being "2 brasse kettles six coates twelve houes 12 axes 12 knives and a box." Said lands were "assigned for the Collonies use for ffishing Improvements." In 1893, the Legislature provided that the Board of Harbor and Land Commissioners should have general care and jurisdiction of so much of these lands as lie north and west of a line described in the act. The Commissioners were also directed to fix and mark the bounds of the lands within their jurisdiction, to establish regulations for the care thereof, to appoint a superintendent, and with the approval of the governor and council, fix the amount of his salary, and also the amount to be expended in the protection and improvement of the land.

In their report for 1893, issued January, 1894, the Commissioners say: *

Further provisions of the act release that portion of the Province Lands lying east and south of the line fixed thereunder from the claims hitherto asserted by the Province and the Commonwealth to ownership of the said lands in fee, and, as to said released portion of said lands, repeal the clause excepting the Province Lands from the provisions of the Public Statutes permitting a title to lands to be acquired against the Commonwealth by 20 years' adverse possession.

The effect of the statute is that private ownership remains impossible in the reserved portion of the Province Lands lying north and west of the line established and that all of the lands in this portion belong in fee to the Commonwealth and can be used and occupied only by its permission, and subject to such regulations as this Board shall from time to time establish. Said reserved portion, although belonging to the Commonwealth, forms a

[•] Report of the Harbor and Land Commissioners, 1893; page 33.

part of the township of Provincetown, as incorporated by Chapter 11 of the Province Laws of 1727, and is subject to its jurisdiction. The released portion of the said lands is about 955 acres and includes the whole inhabited part of the town of Provincetown, there being about 5,000 inhabitants.

The Commissioners in this report present a map showing the Province Lands, give a brief account of the history of their acquisition by the Commonwealth, and allude to the scenery and suggested uses of the lands as follows:*

The scenery of the Province Lands is exceedingly unique and interesting, consisting of irregular hills, ridges, dunes and beaches of sand, with a number of shallow ponds and thickets of scrub growth, containing many trees of fair size, among them pines, oaks, and maples. The whole tract is a wilderness of about 3,290 acres, bounded by the Atlantic ocean on the north and west.

Some persons have had the idea that the Province Lands could be made into a species of park for the people of the Commonwealth, and no doubt, if enough money were spent, it could be made a very beautiful place for summer recreation, differing in character from any park in the world, the color effects of the sand, water and foliage being most picturesque and attractive. It is, however, distant from any centre of population, and the expenditure of money by the Commonwealth for the purpose of turning the Province Lands into a pleasure ground would be a departure from precedent which this Board would not take the responsibility of recommending until practically assured of the success of the experiment. At present it is unnecessary to determine what the ultimate use of the Province Lands shall be, the efforts of the Commissioners being directed simply to preventing the shifting sands from doing injury and to making the Province Lands in their present state reasonably accessible from the town of Provincetown.

Appropriations were made by the legislature under the recommendation of the Commissioners, for the improvement of the lands, and in 1895 the Commissioners again report their action as follows:

The history of the reclamation of sand barrens by the sea in other parts of the world shows that the loose sands may be not only fixed but in time made productive; notably the Landes or heaths of Gascony, containing about 1,700,000 acres; the Campine in Belgium and Holland, containing about 350,000 acres; the lands in Denmark, in Western Jutland, where in 1854 there were 3,614,720 acres, mainly of turf and sand dunes, and where the experiments of the past 27 years have so covered this sand area with vegetation that there remains today only about 1,581,653 acres unreclaimed. There the system of nurseries has proved a great success, their

[•] Report of the Harbor and Land Commissioners, 1893; page 38.

[†] Report of the Commissioners, 1895; pp. 18 and 19.

great value being that the plants are started in the same kind of soil into which they are to be transplanted, and exposures incidental to long transportation are avoided.

As conditions of climate and exposures vary, so also must the selection and treatment of the grasses, shrubs and trees, by means of which the sand dunes of Cape Cod are to be reclaimed; and experience alone will ultimately determine what will thrive best in that particular locality. The severity of last winter was very destructive to the plantings of the previous season, and the Scotch broom, poplars and willows planted in exposed places suffered greatly. In the light of that experience and further study, during this past year we have been planting beach grass along the sands under the lee of existing vegetation and on the northern range of sand hills, until an area of about 13 acres has been covered. This has taken root readily, and already gives promise of its ability to resist the sand storms. There were also set out at the foot of the slope about 2,300 willows of various kinds, a thousand or more silver poplars and some 2,500 pines (*Pinus rigida*). In addition to the foregoing, about 20,000 willow slips have been set down among the beach grass.

They also state that in connection with their work it was found desirable to establish a nursery for seedlings to be used in planting, and in connection with the assumed acts of ownership over certain portions of the lands by private occupiers, they remark:

A careful investigation discloses the fact that no less than 100 persons or estates have been in the habit of exercising acts of ownership over as many or more isolated parcels in different parts of the Province Lands. These have now been located, and the users or occupiers (of whom we have a perfect list) identified. Early in the spring a notice was given to all then known to use or occupy these parcels that the Commonwealth was asserting its ownership over the district, and that in disregarding the notice they were liable to be treated as trespassers. It was at first thought that these occupiers might continue under a license or lease from the Commonwealth; but it is now certain that, the less cultivated and wilder the growth on the cases of the sand barriers, the more rapid will be the growth of the wind breaks and sand barriers.*

In the report for 1896, issued January, 1897, they state that the experience of another year with the Province Lands shows most satisfactory results; and that:

While many of the shrubs and young trees perished, many again survived, and the beach grass planting demonstrates that it can be relied on to hold down the sand and prevent the movement that has endangered

[•] Report of the Commissioners, 1895; page 19.

the forest growth, and which without restraint might ultimately threaten the town.

It is obvious that the work of planting with beach grass must be first, and then that must be followed up by planting shrubs and trees of rapid growth, interspersed with those of slow growth, before the labor of planting shall be completed. Experiments are making in the nursery and in the open for the purpose of ascertaining what kinds of shrubs and trees are best adapted for growth and development under the exposed conditions inseparable from this locality. It is hoped that some species of the willow may find here congenial soil, or that some pine, by a yield of pitch, may in a measure help bear the cost of maintenance. That, however, is not a question of the immediate future, and can be brought forward and discussed after we have succeeded in finding the growth best adapted to the prevailing conditions.*

The reports for 1895 and 1896 both contain statements by the superintendent of the Province Lands, explaining in detail the nature of his work, and also letters from experts whose advice had been solicited by the Board. These letters may be consulted by anyone interested in the subject, and will not be reproduced here. They are devoted mainly to methods of planting to prevent the shifting of the sands, this being a necessary precedent to other improvements over a large portion of the territory.

As to the prospective uses of the lands, Mr. Leonard W. Ross, the Landscape Engineer to the Board, makes certain suggestions which are especially pertinent to the present inquiry, and are therefore inserted. He says: †

With all the existing conditions and facilities at your command, it becomes only a question of time when these lands can be completely reforested, thus not only removing all danger to the town and harbor from the drifting of the sand, but you will also have added materially to the value of this possession of the Commonwealth. It may then be maintained and treated as a forest reservation, which by judicious management, will become a source of revenue to the State by the sale of its products. In this same connection, it might be stocked with game, which may be easily protected, owing to the fact that it is principally surrounded by water, and a considerable revenue would follow a sale of shooting licenses. The value of this feature might be materially enhanced by planting game cover and food-producing plants; the cost of such plants would probably not be more than of those with which you would naturally bind the sand. I would

[•] Report of the Commissioners, 1896; page 24.

⁺ Ibid.; pp. 30, 31, and 32.

recommend the immediate planting of the shores and shallow borders of fresh-water ponds with wild rice, and think it would soon be followed by an influx of mallard, black and wood duck, as well as other water fowl.

These lands might also be made into a park, as has often been suggested by others, but the conditions which here exist for its development into a most unique, beautiful and available park, for the enjoyment of all, are so favorable and the scope of this question is so great, that I do not deem it advisable to here discuss this feature. But whether or not these lands are to be devoted to either of the uses mentioned, the same method of operation which now obtains should be followed for at least a number of years; for any purpose, practically all of the "outside area" should be returned to forest growth. It would, however, be advisable to prepare specific planting plans, in order that any possible errors may be avoided. In order to prosecute this intelligently, a close topographical survey of the area to be treated should first be made, and herein your department is well equipped for this work, as you already have an organized party of engineers, with every facility at hand in your office.

I would urgently recommend that measures be taken at once to exclude the tide water from the "Race Run," which might be accomplished at small expense. If this is done, several hundred acres which are now intermittently covered by salt water would soon become a broad and beautiful fresh meadow, which would readily yield to the process of reclamation, and might in a few years be covered with a desirable growth. This area, which would thus become especially adapted for the purpose, might be planted with asparagus, and ought to result in large profit to the State.

Again, it would be well adapted, I believe, to the growing of the basket osier (Salix viminalis), which is imported from foreign countries to the extent of thousands of dollars' worth every year. I have been informed by our basket and furniture manufacturers that they prefer the best quality of native grown to the imported stock. To reach the highest degree in quality, it should be grown on "sandy bottom land," which we have here in abundance. By doing this, we not only utilize this waste and unproductive land, but the growing, cutting, and preparing of this product would furnish labor to many of our people. It should be grown for three years before cutting; after this period it produces an annual gross income of from \$150 to \$200 per acre, according to the experience of those commercially engaged in growing it elsewhere.

In addition to these facts mention should be made of the very favorable sanitary and climatic conditions which here exist, and which make this locality an ideal one in which to reside for at least a portion of the year; and I am inclined to the belief that at no very distant day we shall see a most prosperous community occupying the now naked shores of Cape Cod, which will naturally require that this area be given more thought, and, in fact, result in its being devoted to public park purposes.

The investigations of this Bureau in connection with the Agricultural Census of the Commonwealth show that the Prov-

ince Lands consist of 3,290 acres, valued at \$26,638. The tract is outside the town limits of Provincetown and owned by the State, although Provincetown holds jurisdiction over it, without, of course, exercising any rights of taxation. The land may be classified as follows: Salt marsh, 534 acres, value \$5,340; nurseries, one acre, value \$200; orchards, two acres, value \$400; cranberry bogs, 147 acres, value \$14,700; other cultivated land, 22 acres, value \$300; permanent pasture land, 20 acres, value \$600; other unimproved land, 1,328 acres, value \$1,328; unimprovable land, including also area devoted to roads, ponds, etc., 1,000 acres, value \$250; woodland of over 30 years' natural growth, 116 acres, value \$2,320; of 30 years' natural growth, or less, 20 acres, value \$200; other woodland, 100 acres, value \$1,000.

The value of the products taken from this territory in the year 1895 may be classed as follows: Blueberries, \$640; cranberries, \$900; huckleberries, \$80; strawberries, \$10; total for fruits and berries, \$1,630: meadow hay, \$740; salt hay, \$10,440; other hay, \$450; total hay product, \$11,630. There are about 85 cranberry bogs upon the lands, including large and small bogs. The year 1895 was a very poor year as to product, and the orchards mentioned were just coming into bearing condition and no fruit was gathered during the year. The values for the product of blueberries and strawberries were estimates made by the superintendent of the lands in conjunction with the agent of the Bureau, and are smaller rather than larger than the actual amounts.

The legislature has made the following appropriations for the use of the Harbor and Land Commissioners in connection with the reclamation of the Province Lands at Provincetown: In 1893, \$2,000; 1894, \$3,000; 1895, \$3,500; 1896, \$3,500. At the session of 1897, however, an appropriation was made only sufficient to pay the expenses of supervision, without providing for the continuation or extension of the work of reclamation.

STATEMENT OF EDWARD H. ROGERS.

Mr. Edward H. Rogers, upon whose memorial the legislature authorized the present investigation, has by request furnished the Bureau with a statement, embodying his experience of the changes that have taken place upon the Cape, and his views as to the general policy which the State, possibly aided by organized private interests, ought to pursue toward improving the conditions which now exist there. This statement which contains interesting reminiscences of the past, as well as suggestions for the future, follows:

I am requested to make such a statement concerning my personal relation to the inquiry which you have in hand, relative to the immigration of Western Islanders into the southeastern part of our State, as may seem appropriate.

I have been acquainted in various ways, ever since I was a child, with Cape Cod. My father was engaged at City Point, South Boston, in the construction of schooners for the mackerel fishery from Wellfleet; and, in the year 1838, when I was 14 years old, I went with him on one of these vessels to the Gulf of St. Lawrence. On this voyage, I became familiar with the successful practice of co-operation in this department of the fisheries, with results which have permanently affected my life. I afterward learned the trade of a shipjoiner, and, in the year 1849, I accompanied my father and several brothers to the town of Wellfleet with the intention of constructing vessels suited to the purposes of fishing and oystering. They had been engaged in the business for two years previously; one of these years was spent in Truro, the adjoining town. After I joined them, we continued at Wellfleet until the close of the year 1852, employing workmen from the upper part of the Cape in considerable numbers, and I was myself afterwards engaged at my calling in Provincetown, and in Centreville, a village of Barnstable. I thus became measurably identified with the Cape, and, being of an inquisitive turn of mind, my attention was attracted to those aspects of its life which have become obsolete, but which I will now suggestively attempt to revive.

I recollect as one of the most valuable lessons of the early years of my life, that I saw at one time 80 sail of the most perfectly constructed vessels of their kind in the world, riding at anchor in the port of Wellfleet, Mass., a town deeply imbued with the Pilgrim spirit and character. These vessels could not have been worth less than \$200,000; and they were owned almost exclusively by their crews, numbering about a thousand men. They were navigated on shares; and the whole business as it was conducted at that time (1850), furnished conclusive evidence that the religious spirit may work in harmony with the State in the application of equitable economic law.

When I left Wellfleet at the close of 1852, I did not visit it again until after an absence of 43 years. I had continued my interest in the place, but I found a surprising change. That great fleet of prosperous fishermen had disappeared. From Indian Hill, overlooking the harbor, I saw its wide expanse shining in the sunlight, bare of all signs of commercial activity; as much so as on the day that the Mayflower's shallop passed the point where Billingsgate Lighthouse is now located, in her search around the shores of Barnstable Bay for a safe harbor. Three well-appointed and

large fishing wharves lay in my sight unoccupied, and fast falling into decay; a fourth wharf had entirely disappeared. Two abandoned homes of fishermen were in sight, whose roofs had fallen in and whose windows and doors were shattered or unhung; and these ruins told the story of many others which had disappeared through decay, or by removal to the centre village. As I looked in that direction, or walked afterward through its streets, I found instead of the Cape cottages which had been so familiar to me in my former residence, all the signs of leisure, and wealth, but none at all of industry, and the possession of property and income by the common people. In their stead, there were Italian villas or cottages in English style, with other indications that the locality had changed entirely in its character.

It is desirable here to trace some of the steps by which this change was brought about. When I went to the town in 1849, I found considerable numbers of salt-making plants located upon the shores of the bay and in the creeks emptying into it. These were composed of water-tight wooden pans or vats about six inches deep and 12 or 15 feet square, into which salt water was pumped by small windmills; these pans were covered by a roof supposed to be tight enough to shed the rain: these roofs moved upon slides. When the sun was out they were pushed by hand away from the pan, and when rain was imminent the covers were drawn back into place. The evaporation of the water proceeded rapidly in hot weather, leaving the pans coated with pure salt: it was very clean, and every way desirable for use in the business of the place. It gave partial employment to old men or invalids, and perhaps to other members of a family, as the pans were usually near a residence. This industry was already in decay at the time to which I allude, a half-century ago. No new plants were in process of construction, and as fast as the old ones fell out of repair they were abandoned. The cause, I presume, lay in the cheapness of rock salt.

The next industry which the town has lost is that of the mackerel fishery; the great fleet of which I have spoken has dwindled to two vessels. The main cause is to be found in the desertion of our coast by this shy fish; and, besides this, with the introduction of seines, the opportunity for the employment of boys in mackerel catching ceased. The spreading and management of nets in the waters of the ocean, require the skill and strength of men; boys are useless in such circumstances, and this fact has contributed powerfully to the exodus of youths from the Cape to the mainland, and to their change of base from the sea to the land for the development of their life work.

Subjective causes have been operative in the decay of the fisheries. When I was first upon the Cape, a prominent proprietor of one of the fish-packing wharves told me that he did not get all the vessels that he should, on account of the lack of public spirit, coupled on the part of some of the sharesmen, with a narrow-minded personal jealousy lest he should grow rich. He did not, however, prosper; partly perhaps for the reason above given, and partly on account of the precarious nature of the business. He left Wellfleet shortly after the time I have named. It should be stated that many of the vessels were packing at East Boston, and this was in spite

of the fact that the men were thus deprived of the privilege of being frequently with their families, as they could have been if they had packed at home. Another means of support of the Wellfieet people at the time of which I am writing, was derived from the winter transportation of ovsters in their shells from Norfolk, Va., or its vicinity. Quite a large fleet of mackerel catchers were engaged in this work, and as they employed for the most part their own townsmen, a considerable amount of money came into the place in a very acceptable way. This industry has also for many years been of the past, as it has been found cheaper to open the oysters in the South, and to transport them by rail to northern markets. While the mackerel fishery was decaying, some of the most enterprising captains had large schooners built, and they engaged in the freighting of coal from Pennsylvania to northern ports; this, however, has not proved profitable on account of the competition of the railroads and coal hulks or barges. Lastly, bounty catching, not the least of the economic factors in the former life of the Cape, has disappeared. It was, I believe, in decadence when, some time in the fifties, the national law relating to the subject was repealed.

Passing now to the consideration of some of the more general aspects of the situation at the Cape, I recall a fact which was very evident to me at the period of which I am writing. That is, that there was much unemployed time during the winter and early spring. The sail lofts and the groceries were the centres of groups of idlers, mostly young men of character and social standing among their fellow citizens. The leading influences of the place were strongly prohibitory of the sale of liquor; so much so that whatever there was of an injurious character in the enforced idleness of so many men in the prime of life was confined to its pecuniary loss.

It is appropriate here to allude to the religious status of the Cape, so far as it affected the conduct of the fisheries. The influence of the churches was used against Sabbath fishing; the weight of opinion favored going into port on that day, or of remaining over the Sabbath in one to which the fishermen had been driven by stress of weather. The leisure of which I speak was not due to laziness, or thriftlessness; its subjects were high-spirited, well-dressed, and to a large extent educated and ambitious men; they chafed at the trying limitations of their lot. It was easy to foresee that they would not be contented to remain on the Cape if an opening was made for escape. The years that have elapsed have given them employment upon the mainland, with such effectiveness as to draw them permanently from their homes, thus giving place to the incomers of another race, and leaving the future of the Cape to an entirely different people.

This abandonment of the Cape by its operative population cannot be fully accounted for without some reference to the circumstances and influence of its women. Hayward's Gazetteer of Massachusetts, for 1840, states, "In 1887, there were in Barnstable County 914 widows living who had lost their husbands by the dangers of the sea. In two towns (Harwich and Wellfleet), there were 223 widows who had lost their companions." In the account of Truro, the same authority states, "In common with other towns on the Cape its people are greatly exposed to the dangers of the sea which surrounds them. The awful gale of October, 1841, brought

the keenest of anguish to the bosoms of thousands, particularly to the inhabitants of Truro. In one night of terror 60 of its manly youth and active men of middle age found watery graves, leaving 27 widows and 51 children, besides a numerous train of other relatives and friends to mourn their melancholy fate."

A part of this mortality has been abated by changes in the style of small vessels, giving them more stability, and in greater care in the use of ballast. But the loss at Truro was by the act of the Supreme Being, or by His permission; no human foresight, nor skill in seamanship could have availed to prevent it. I am familiar enough with the inner history of some of the marriages which took place afterward, to affirm that its effect in connection with other similar influences was very marked. The favor of young women, and, indeed, of their parents, in respect to marriage, was extended much more freely to landsmen than to fishermen or sailors. The influence from this source pervaded all the lower towns of the Cape. It had become evident that the dangers of the coast fishery far outweighed the precarious advantages of the calling, and the eyes of the young women, as well as the young men, were sharply directed toward every avenue which opened a way of escape from its awful exposures.

I became familiar, while resident in Wellfleet, with her large ponds of pure water, and as I roamed over her territory, I suspected, rather than saw, the rich deposits of mud and loam and clay which lie waiting for deposit upon her meadows, or upon her terraced hillsides. Really, there is no good reason why the examples of Holland and Palestine should not be emulated, and in a sense repeated. Recently I have learned of the vast regions lying between our Central States and the Pacific Coast, which are now practically deprived of water at the season when it is most needed. I have been astonished to find that irrigation must occupy a conspicuous place in the future action of the general government; that at least one half of our national domain must be provided with water by organized and costly expedients in the form of reservoirs, canals, etc., if we would avoid the poverty and occasional famines of the agriculturists upon the arid lands of the West.

It has become evident that there is a need for irrigation on the Cape, and that there is no lack of water either from the ponds or from artesian wells. To be really effective, however, there must be organized effort. With this, there seems to be no insuperable obstacle to the fertilization and culture of considerable territory, even amid the arid hills of the lower towns of the Cape, and of the partial support in this way of a population which shall blend fishing and gardening. The tendency of the women of the Western Islanders to out-of-door avocations of this sort, is a characteristic of great value. Our Commonwealth engaged very successfully in the reclamation of land on the Back Bay; ought it not to exercise the same right of eminent domain over its lands at Provincetown, for the benefit of the poor, that it did in Boston for the rich? From motives of large self-interest it is now spending \$50,000 a year to give the sons of our well-to-do people a nautical education. The question presents itself: Why stop here?

[•] Upon this point, see the letter from Mr. Walcott, page 87 post.

Are not seamen as necessary as officers? And is not the Cape the proper place to raise them?

Passing from what may possibly be done by the State in the way of developing the natural resources of the Cape, I note that the churches were originally a leading factor in developing the share system of fishing. The fleet of market fishermen which still survives at Provincetown, in an unbroken succession from its first development at Plymouth, had its origin in the following customs, which were inaugurated early in the second season of the settlement of the Pilgrims:

"Each family to have a certain parcel of land, in proportion to its numbers, on the condition only of a certain portion of the corn (to be) set apart at the harvest for those who were engaged in public business, and for the fishermen." It is apparent from this that fishermen were considered to have a claim upon the community, owing to the precarious nature of their calling. In after years this brotherly impulse found expression in the enactment of a national bounty to cod fishermen. The repeal of this gratuity, which took place about the middle of the present century, was undoubtedly due to the growth of individualism, and to its influence upon public men and measures. The abolition of the cod-fishing bounty was an expression part and parcel of the political views which were in ascendancy at the time. They found further expression soon afterward in the denial that the Nation had any moral responsibility for slavery, with consequences stupendously disastrous to the whole people; and they are still in injurious operation in respect to many public questions. In some form, appropriate to our times and circumstances, the "let alone" policy in regard to the Cape and the interesting people who are finding a home upon its bleak shores, must be abandoned The failure of the fisheries has starved out a most industrious and energetic race, and there is no probability that those who are succeeding them can make a success under the present competitive conditions. The great churches of our land are under obligations to render them moral aid, in bettering their material condition. In a recent public statement of the charges against one of the Provincetown schooners engaged in share fishing, certain " general" items, which are always deducted before allotting the shares among the crew were given; among them were the items of "Church and Charity." It is to be understood by this that the tendency of the business is setting toward a theocratic connection, reviving in this respect the revered memory of the Pilgrim Fathers, though under different religious auspices.

There are other things that have contributed to the changes that have been followed by the immigration of the Western Islanders, of a more general character than those already named. They possibly admit of a combination of the influences already given. Of the original rights, both corporate and individual, of the first settlers to natural wealth, nothing remains except the alewife fishery, as it is still annually in operation in Herring Creek, at Wellfleet. If the social forces of the State can be quickened to a sense of the importance of a revival and re-establishment of this function, there seems to be no obstacle in the way of the development and culture, on an extensive scale, of the cranberry, and of oysters, clams, and other shell fish; the people in their individual capacity having

certain recognized rights of appropriation, as in the case of alewives, having in view the number of children dependent upon them for support.

A most valuable illustration of future possibilities is offered in connection with the fresh-water pond which has developed on the neck in Truro, within the limits of Provincetown.* Much solicitude has been expressed on account of the narrow outer range of sand cliffs, which have been, until recently, the only protection of Provincetown Harbor; but I submit that the construction of the inner barrier, composed as it is of a common road, and the embankment for the railroad, nearly side by side, has changed the whole situation. It admits of the filling up of the fresh-water pond, which now lies between the outer and the inner coast lines This would give a solid sea wall, half a mile wide, admitting of ready repair if the ocean or the bay should at any time break in upon either limit. The Highlands of Truro are near at hand as sources of material for the filling. The tract of land thus redeemed from the ocean would admit of irrigation by artesian wells, and of culture; and the labor of its construction should be rewarded, in addition to ordinary wages, by the right of occupancy for gardens, subject only to nominal rent. The failure to improve the land should extinguish the title to occupancy. The success of this enterprise would tell upon the construction of the canal at Sandwich. There does not seem in the nature of things any inherent obstacle to the organization of the needy work-people of the State in a peaceful and beneficial enterprise of this sort. We may remember that we are only one generation removed from the surprising event of a million men leaving home and everything dear to them, and enduring for years labors and exposures far exceeding any that their children will find it necessary to do in redeeming our land from ignorance and poverty.

Possibilities of Irrigation.

The possibility of improving the facilities for gardening, and perhaps of considerably extending the agricultural development of the Cape towns by the introduction of a system of irrigation, is an important element in Mr. Rogers' statement, and is also alluded to in the detailed information collected by the agents of the Bureau.

It is not necessary to go very fully into this matter, as, if anything of the kind were undertaken, the work should be preceded by a careful and comprehensive survey and the plan developed under expert advice. We may, however, point out that enterprises of a similar nature have proved very successful in localities much less promising than Barnstable County.

The experience gained in Egypt and Italy, where, as a student of the subject has recently well said, "The use of water

[·] See facts relating to this, page 60 ante.

in cultivation has been gleaned for centuries, and seems almost to have been taught in the beginning by Nature herself," has, in modern times, been utilized and extended in France, Spain, Australia, and in the Western United States. In Egypt, there are 6.000,000 acres under cultivation by means of irrigation. and where there is no irrigation there is a desert.* In Upper Egypt great basins are formed by means of embankments, which are annually flooded by the rise of the Nile, and in Lower Egypt this primitive plan has been supplemented by modern methods, including a regular system of weirs, reservoirs, and permanently flowing canals. † In France, it has been estimated, there are 7,500,000 acres to which irrigation may be profitably and advantageously applied, although a very much smaller territory, possibly 400,000 acres, is now actually irrigated. In Spain, about 500,000 acres are under irrigation. In Italy, however, the system is fundamental. The total area artificially watered is placed at 3,750,000 acres.* and the results have by no means reached their limit. Many of the irrigating canals are of ancient date, but the outlay in modern times has been large. "What proportion of the outlay has been made by the State is not readily determinable. It has purchased many canals and improved them, and has constructed others. What is certain is, that its expenditure upon their maintenance still amounts to £20,000 per annum, and its revenue from them to Projects for the construction of new £120,000 per annum. works, and the addition of larger irrigated areas, are still before the Italian Parliament. Its ministers announce a steadily progressive irrigation policy, and determinedly subordinate other great interests to it." *

What irrigation has accomplished for Italy is most effectively summarized in two paragraphs by Monsieur Albert Hérisson:

In Italy, every city has dignity and character, and this is its great charm for the traveller. Rome, Florence, Genoa, Venice, and Naples have become incomparable cities, either by their inheritance from the past, or from their admirable situation. Milan has no history; she is laid out artlessly in the midst of a monotonous plain, without being enlivened even by the proximity

[•] Irrigation in Egypt and Italy; Report to the Royal Commission: Hon. Alfred Deakin, M. P. New South Wales, 1887.

[†] Notes on the Irrigation Works of Egypt; Sir Scott Moncrieff, C. S. I., etc., 1884.

of a river, and yet of all those illustrious cities Milan is at the present day the most powerful. Nowadays the importance of a city is most often shown on the map; it is enough to count the railways that radiate from it—there are three for Rome and eight for Milan. Rome is the political, Milan the economical capital of Italy. Such great prosperity has, however, only one single source—the prosperity of agriculture brought about by irrigation.

The system of irrigation has nowhere else been carried out to such an extent. As we pass through the Milanese lowlands, we can perceive the power of this organization and its effects. Almost every hundred yards we come upon either a canal or a drain; there is not a field but is bathed at least along two sides by clear and running water, brought sometimes from a distance of more than 100 miles; fertilizing streams intermingle with blocks of cultivated land, which are always beautiful, and even in the dead of winter we may see the mowers cutting down splendid crops of grass. This water, which gives to the summer the freshness of the rainy season, can also give to winter the warmth of spring. The mind is overcome with wonder at what the intelligence and energy of a people have accomplished, especially when we consider that Lombardy has always been the battlefield of all Europe, and that it has been in the midst of the incessant ravages of war and the continual changes of governments that these prodigious works have been constructed.*

Of course wherever the supply of water has really become a supreme factor in the development of a country it cannot be permitted to pass out of the control of the State. The system of irrigation, therefore, generally proceeds under State control, although this is usually united with private initiative. Thus, speaking of the administrative system applied to irrigation in Italy. Mr. Deakin remarks that "The eulogies passed by critics upon the Italian system are bestowed not so much upon direct State action, as upon the co-operation of the irrigators, which has been for centuries its mainstay and practical means of management. Although the State has absolute control of most of the canals, it deals by preference with syndicates or associations, which purchase the water from it and then arrange for its distribution among its constituents. 'There is scarcely a landowner, says Hérisson, who does not belong to one or more associations for receiving or disposing of water.' 'I believe,' writes Colonel Baird Smith, 'that the administration is always best when the proprietors themselves can be made its agents."

In Victoria, Australia, where methods of irrigation have

[•] Rapport sur les Irrigations du Vallée de la Po; M. Albert Hérisson, Paris, 1881.

been under investigation in recent years, with the result that favorable legislation has been adopted and the construction of irrigating systems begun, the control of the works and the adjustment of costs of maintenance, etc., are vested in a local body called an "Irrigation Trust." the members being elected by the proprietors. These trusts are under State supervision and direction, and are obliged to submit their plans for author-Similar bodies, having members elected by the proization. prietors, or, in other cases, by the municipality, are operating in Italy, France, and Spain. The French Government, like that of Australia, aids approved enterprises with concessions or subsidies, the works, however, remaining under local control. Upon the position which the State should assume toward such enterprises, and of respective relations of the State and local authorities to methods of administration. Mr. Deakin* summarizes as follows:

Italian experience, French experience, and Spanish experience, all go to show that the interests to be studied in relation to irrigation schemes are so many and so various, and so intimately bound up with the public welfare, that State control is imperatively necessary, and that for the protection of its citizens no monoply can be permitted which would separate property in water from property in the land to which it is to be applied. But at the same time it is established that while a general central control by the State is essential, the business management and distribution of the water are much better placed under local authority, as this is more efficient in its supervision, more economical in its administration, and is educational also in a political sense to the highest degree. The establishment of a comprehensive system of irrigation by private enterprise is possible only under unusual conditions. If it embrace many sources of supply, large areas, or conflicting interests, it is impossible. The capital required is large; the returns are not rapid, and the full benefits secured by the close occupation and complete utilization of considerable areas are so diffused that the State, which reaps those benefits in unnumbered ways, is certainly justified in assuming large responsibilities in their initiation. This becomes palpable when it is perceived that, as in Egypt and Italy, carefully-matured schemes ensure an enormous agricultural production and the staple prosperity of a large number of producers. It may safely be asserted, from foreign experience of many generations, that irrigation is one of the soundest national investments, where engineering ability executes works which are afterwards taken over under local control, guided by a carefully-compiled code of water laws and regulations, while the land, whose production is enhanced, is charged with the interest upon the capital expended in supplying it.

^{*} Report to the Royal Commission on Water Supply; New South Wales, 1887.

In Egypt the village commune, in France and Spain the association, and in Italy the syndicate, intervene between the State which owns the water and the individual who purchases it; while in the first directly, and in the last indirectly, the State has its advances secured upon the land which is watered. This system is unknown in America, for though State ownership of the water is secured under the constitution of Colorado, and there are colonies in California which partake of the communal principle, the two are not conjoined. There are no State works, but virtually those private persons who construct them do so upon the security of the land benefited. The best American opinion, however, is in favor of such a system of divided responsibility between the central and the local government, and it has been envied and admired by eminent Indian authorities as well.*

We need not pursue this subject farther. Cape Cod is neither Egypt nor Italy, nor are systems which are entirely successful in one locality suitable to be adopted in others, under conditions widely different. In view, however, of the feasibility of improving the fertility of the Cape lands by irrigation, which appears to be connected with this inquiry, it seemed proper to show, in such concise statements as have been presented, exactly what has been accomplished elsewhere, and, especially, the relation of the State to such enterprises in places where it is by no means unusual for the State to assist actively in the work. If anything of this kind is ever done on the Cape, it is probable that the assistance of the Commonwealth would be required, to the extent at least of pledging its credit, as private capital is not available in the hands of those who would be directly benefited by the results. The indirect benefits, of course, would inure to the State as a whole.

The following letter from Charles D. Walcott, Esq., Director of the United States Geological Survey, at Washington, relates particularly to irrigation upon the Cape:

I beg to state that within the past year or two there has been great development of irrigation through the utilization of small amounts of water which in the past were regarded as almost insignificant. This has been brought about by the adaptation of windmills and of pumping machinery to the peculiar needs of the irrigators. For farming, the requirements are that considerable quantities of water shall be raised through a small elevator at low cost. It is not practicable, as in the case of city supply, to erect elaborate pumping machinery, and on the other hand, the quantities handled are far greater than those for ordinary municipal supply, although small as compared with the amount which can be diverted from a creek or small river.

The conditions on the Cape are, as I understand, quite favorable for the development of irrigation, following the lines worked out in Western Kansas. Water is usually to be had in considerable quantities at a short distance below the surface, and the winds are sufficiently persistent to operate a windmill for about a third of each day. If suitable small ponds 100 feet square are constructed at each mill and thoroughly lined or puddled with clay, and the mill allowed to pump into this whenever there is sufficient wind, there can without doubt be a sufficient supply obtained for the irrigation of from five to ten acres, according to the capacity of the pumping machinery. The soil of the Cape, although so light and sandy, is in many places adapted for the production of a wide range of vegetables and produce, finding a ready market at good prices; and a larger outlay for providing irrigating machinery would be more justifiable than in the case of our western plains where the distance from centres of population is enormously great.

The municipal water works at Provincetown have demonstrated the practicability of supplying considerable quantities of water from wells in that locality. The works were constructed in 1893, costing \$70,000; and consist of the usual pumping plant, standpipe reservoir, and distributing system. The source of supply is ground water, obtained at a point about three quarters of a mile from the inhabited part of Provincetown, in the broadened end of the Cape. The water is pumped from a system of six pipe wells, each five inches in diameter, and provided with strainers. At a preliminary trial, water was pumped from a single well at the rate of over 200 gallons per minute, the sand in which the strainers are placed being quite open.

Some 45 preliminary test borings in different locations were necessary in determining the greatest area of good water, a peculiarity in the formation of this part of the Cape having caused the water in places to become impregnated with marsh gas, attributed to the slow decay of marine growths, apparently located with no system of uniformity, but just as nature had deposited them. In order to avoid the possibility of annoyance from this cause, if some of that water should be drawn in when a very large quantity is pumped, the water is first pumped into the reservoir and aerated by a simple device before it is delivered to consumers. This method does all that was expected of it, and users express much satisfaction with the water.*

[·] Lewis Hawes, Esq., Civil Engineer.

STATE AID TO LAND OCCUPANTS.

Allusion has been made to the possibility of aiding the unemployed or needy work-people in the State to take up unoccupied land on the Cape, or land that has been abandoned as to cultivation, on account of the death or removal of former residents.

Mr. Rogers in his statement suggests the improvement by filling and irrigation of certain tracts, and the formulation of a plan by which such land can be acquired by persons who desire to improve their circumstances. The memorial on which this report is based asks the Bureau "to ascertain how far the functions of the State can be exercised in the aid of the people in the reclamation and adaptation of land for the ends herein set forth."

If any such plan is contemplated experience is not lacking which may serve as precedent and guide. Considerable testimony upon this point was taken by the Commission on the Unemployed.* An instance of State aid, devoted to fostering immigration for the purpose of taking up land, appears in the well-known Swedish colonization in Aroostook County, Maine. Of this, Charles E. Oak, Land Agent, of Maine, remarks:

No attempt at colonization has been made in the State since 1870, when, through the influence of Hon. W. W. Thomas, then minister to Sweden, a small colony of Swedes was given a township of land in northern Maine, and was also further assisted in making its first clearings, building a log house and harvesting its first crop.

No further assistance was ever rendered them, but the colony has flourished beyond the expectation of anybody, until to-day it numbers more than 1,000 and all that prevents it from numbering many more is lack of territory on which to settle.

The adjoining townships are owned by private individuals, who, on account of more important business for themselves, refuse to divide them into lots and sell to settlers, but would sell the whole township to companies or colonies, to divide among themselves or sell as they saw fit.

It would require an outlay of about \$30,000 to place one of these townships on the market, but in the judgment of these best informed it would be a good business venture for any private individual who would give it his attention.

The State having disposed of all its desirable lands for settling, it can only be by some such scheme that such lands can be opened for settlers.

[•] Report on the Unemployed; Part V, pp. 102 and 103.

No doubt the new railroad company just completing its line into Aroostook County would be more than willing to assist in colonizing any township along its line, and we hope some plan will be devised to accomplish this most desirable end.

Inquiries, representing from one to fifteen families, are being received very frequently from manufacturing towns, asking where they can purchase just such lands, from which fact I infer that a whole township could be settled in two years by a thrifty, industrious, well-to-do people.

The last paragraph, italicised by us, apparently shows a demand from those in industrial centres who wish to go upon the land. Hon. W. W. Thomas of Portland, Maine, Ex-Minister to Sweden, was closely connected with the original Swedish colonization of Aroostook. As to the methods employed and their success, his statement is as follows:

About 20 years ago the State of Maine wanted persons to take up the vacant lands, and I undertook to bring over here from Sweden a colony to occupy land in Aroostook County. I felt it desirable to pick men who were as far as possible accustomed to the condition which they would encounter in northern Maine. For this reason I took my men from the districts of Sweden which corresponded most closely both in nature and climate to the part of Maine to which these colonists were to go. Only two came from the cities. The men came from a country where they were accustomed to clear land and till it, either devoting themselves wholly to farm work, or alternating their farm work with lumbering and fishing. They were, therefore, not without farming experience. Moreover, they were picked for moral integrity, physical and moral strength. None were taken who were not able to pay their own travelling expenses to America. and most of them had some money laid by, some of them having as much as \$1,000 or \$2,000. Among the number were some who had trades. Those with practically no experience in farming sooner or later left the colony. Some took to basket making and mechanical trades, and either moved to a place previously settled to carry on their trade, or else emigrated to other parts of New England. There is a considerable number now in Rhode Island, who originally came from this colony in northern Maine. The two men who came from the city created a great deal of trouble, and very soon left. Effort was made to supply the element of sociability in this new colony by placing the houses in such a way that four came together at adjoining corners of four farm lots. Then at the next joining place of another four farms four houses were built. In this way there was a number of very small settlements, and so far as possible men who came from the same sections of Sweden were placed in these neighborhoods. The State of Maine furnished many of the necessities for getting the undertaking well started. A part of the land was already cleared. The State furnished the seed and horses for the original ploughing and harrowing, and enough supplies to keep the people until the crops came in. But even with these encouragements I have every reason for thinking that unless an immense amount of personal interest and influence was brought to bear upon the men to keep up their courage and to assure them that they had a very good thing, the colony would have been broken up before it was put upon a sound basis. It took three or four years of this personal endeavor and personal encouragement to assure a permanent success.

It seems to me that the only possibility of making a colony a success is that everything shall be as closely individualized as possible, and that there shall be no communal element, but every man shall have his own home, his own piece of land, his own individual responsibilities, and the element of sociability must be trusted to come voluntarily, and not to be in any way thrust on the men. Any system by which a lot of men are to be put in a common building is going to degenerate in time to a sort of country poorhouse; but, nevertheless, the only way to keep the men upon the farms is to introduce the element of sociability in some fashion. The plan of having the houses come together at every four corners seems to be the only method of supplying that need.*

The English Small Holdings Act, 1892, 55 and 56 Victoria, Chapter 31, enables county councils to aid individual ownership of small holdings by the purchase, lease, and improvement of estates, to be afterward sold or let in small lots.

The term "small holdings" in the Act means lands acquired for the purposes of the Act, such land to exceed one acre, and not to exceed 50 acres in area, or, if exceeding 50 acres, to be of an annual value for purposes of the income tax of not exceeding 50 pounds. Councils may assist tenants in the purchase of holdings by lending a part, not exceeding four-fifths of the purchase money. Any council acquiring or renting land for the purposes of the Act is to fix the purchase money or rent at an amount which will guard it against loss.

The Act for facilitating the creation of small agricultural holdings, which came into operation on the 12th of October, 1892, empowers the Council of any county where it appears that there is a demand for small holdings sufficient to justify its doing so, to put the Act into operation and take steps for acquiring suitable land for the purpose of providing small holdings for persons who may desire to obtain and cultivate the same.

Since the appointment of the Committee by the Council in March, 1893, to carry out the provisions of the Act in the county of London, about 30 acres of surplus land belonging to the Council adjacent to the main drainage pumping-station at Abbey-mills, in the borough of West Ham, and known as Millmeads, have been laid out in allotments. The land has been divided into upwards of 100 plots, each consisting of about one-tenth of an acre, the rental being fixed at 8s. per plot per annum, and they are all let to

[•] Report on the Unemployed; Part V, pp. 103 and 104.

tenants who are cultivating them under the regulations made by the Committee.

During the last winter the co-operation was made with the Mansion House Conference to give work to the unemployed in the development of land at this place.

The Committee has also taken under its administration other land belonging to the Council known as the East Ham allotments. This is about two acres in extent and laid out in 21 allotments for hire by men residing in the vicinity, and all the plots are now occupied by desirable tenants and excellently cultivated.

The Council has also taken a three years' tenancy of two acres of land in Anchor and Hope-Lane, for the benefit of working-men at Charlton. This land is divided into 16 plots, though held as one holding, and the several plots have been sublet and are under cultivation on the co-operative principle. The results thus far are satisfactory.

It has also entered upon the tenancy of 10 acres of land between Woolwich and Charlton, but this plan has not yet been developed.

The committee expresses regret that it is difficult to secure land because of the high price charged by private land owners, and the Council is obliged to comply with the section of the Act that all expenses incurred by the Council should be recouped by the rents received.

Up to the date of this report petitions for small holdings have been received from about 680 persons, principally the laboring class residing at Charlton and other parts of the county of London.*

The most extensive, and, on the whole, most interesting experiments in the direction of governmental aid in the utilization of land by the unemployed or insufficiently employed, are found in Australia. As to the methods adopted in Victoria under the Settlement of Lands Act, of 1893, the following report, cited by the Commission on the Unemployed, † is reproduced, in order that matter pertinent to the present inquiry may be before the reader:

Report (July 30, 1894) of Proceedings taken under the Provisions of the Settlement of Lands Act 1893, Victoria.

The above-mentioned Act came into operation on the first day of September, 1893. The regulations thereunder were approved by the Governor and Council on the 4th of that month.

An office was at once opened, which was placed under the charge of a special officer.

The popularity of the Act was demonstrated immediately upon its becoming law by the large numbers of persons who daily througed the office, eager to take advantage of its provisions; and that popularity has been

^{*} Report of the London County Council, 1893-94; Small Holdings Committee.

[†] Report on the Unemployed; Part V, pp. 106, 107, and 108.

well maintained, as will be seen from the fact that during the past two months no fewer than 453 applications have been received and registered. The total number of applicants since the Act came into operation is 4,080, of which 2,122 have been approved, 993 refused and withdrawn, leaving a balance of 965 in course of being dealt with, not including applicants under Part III.

Owing to the large number of unemployed who were at the date of the passing of the Act residing in the city and suburbs, land was made available with all possible speed for settlement under the Act; and it was determined to allow applicants to go into immediate occupation of such lands, and not compel them to wait until surveys of the allotments had been effected. By this means the immediate necessities of a large number of persons were met and considerable relief afforded, although in some few instances little difficulties arose, owing to two or more applicants claiming the same allotment. In every case these difficulties have been satisfactorily adjusted.

The Act is divided into three parts, viz.:

Part I., Village Communities.

Part II., Homestead Associations.

Part III., Labor Colonies.

Under Part I., any person not under the age of 18 years who is not the owner in fee simple of two acres or upwards, nor the lessee of a pastoral allotment or grazing area, nor the holder of a license under section 42 or section 49 of the Land Act, 1890, nor a lessee under Part II. of this Act, is entitled to obtain an area from one to 20 acres. Under this Part of the Act 2,726 persons have made application.

Part II. provides for associations or combinations of persons of not less than six, requiring acres from one to 50 for each settler. Any person over the age of 18 years, not being a married woman, not holding 10 acres of land or upwards in fee simple, and with the other restrictions named in regard to Part I. of the Act, can become settlers under this Part. Under Part II. of the Act, two societies, representing 71 members, and 152 associations, representing 1,283 members, have made application; the total number of applicants under this Part being 1,354.

The reports upon settlements under this Part of the Act are, notwithstanding the many initiatory difficulties, fairly encouraging; and when these are overcome, there can be no doubt but that the community at large will be considerably benefited by the establishment of a self-reliant yeomanry class in connection with these associations.

It is to be regretted, however, that in some instances the success of the associations so far has been somewhat retarded by disputes and disagreements amongst the members, resulting in some cases, where circumstances permitted, in transfer of the settlers to the provisions of Part I. of the Act. The principle of each settler holding his own allotment appears to give the greatest satisfaction, and in most settlements they help each other, although not working as associations.

The number of settlers that have availed themselves of monetary assistance under section 32 of the Act is 985, and the total amount advanced is £3,873, being less than half the amount voted by Parliament, and 42 1-2

per cent of the value of improvements effected, and in no case has it exceeded the value, after inspection, of such improvements. This aid has generally been given in monthly instalments, at the rate of 10s. per week. It was deemed desirable to make the instalments small, in order to spread the aid over such a period as would enable the participants, by the time they had obtained the maximum amount, to have effected such cultivation as would insure them a supply of vegetables sufficient for the use of their own families, with probably a surplus for market supply. It is gratifying to note that so many have been able to do without monetary aid, all of whom it may be fairly assumed will prove permanent settlers.

Careful inspection of the various settlements was made by experienced officers during the months of May and June ult., with the view of ascertaining information on the following points:—

- 1. The number of settlers actually residing upon their blocks.
- 2. The number married and single respectively.
- 3. The number, including wives and families.
- 4. The total value of improvements effected.
- 5. The number likely to become permanent settlers.

The land set apart and appropriated for labor colonies is situated at Leongatha, and consists of 800 acres of excellent but heavily-timbered land. This colony was managed under the provisions of the Act by trustees (to whom I am much indebted) up till Feb. 2, 1894, but, in consequence of their inability to comply with the requirements of the Act as regards obtaining the necessary subscriptions to enable them to claim the government aid, I was constrained to take the supervision of the colony into my own hands. This arrangement, it is hoped, will be only temporary, and that the trustees will, in course of time, be in a position to resume the management.

The Special Report on the Richardson Settlement at Lyonville, hereto attached, will be read with interest. This settlement was first started to give work to the unemployed,—cutting firewood and mining timber. Immediately the Land Settlements Act came into operation, the land on which they were working was made available, and the people so employed placed upon their own allotments. It will be seen that the total expenditure during the year amounted to £2,650 3s. 10d., and that the receipts from the sale of the timber and the value of stock on hand are £2,832 19s. 7d. There are 341 souls on the area set apart, and the value of the improvements for building, fencing, clearing, water storage, and cultivation is £2,589 11s., whilst the amount advanced under the Act is only £272. This fact shows that the workers must have been saving, and fairly remunerated for their labor.

A careful perusal of the inspection reports herewith, Table A and Table B, will show that the results of the Village Settlements scheme have proved, in the main, as satisfactory as could possibly be expected for the time the Act has been in operation; and there is every reason to hope that most of the settlers will find on their allotments homes free from strains that surrounded them in their city life, and that in a few years they will be relieved from the privations that necessarily attach to their present position.

Table A.

						Area Made Available	Number of Approved Applicants	Total Area Allotted (Acres)	Average Area to Each Settler(Acres)
Total,	•	•	•	•	•	156,020	2,122	48,367	23

Table B.

	Number of Settlers Actually Re- siding	Married	Single	Total in- cluding Families	Value of Improve- ments Effected	Number probably Permanent
Village Communities, Part I.,	928	666	262	4,313	£11,384	848
Homestead Association and Societies, Part II.,	720	506	214	2,612	9,554	557
	1,648	1,172	476	6,925	£20,938	1,405

Later reports from Victoria are not available to this Bureau, but information is at hand as to the experience in maintaining State farms in New Zealand, up to the year ending March 31, 1896. In New Zealand, as stated in the report of this Bureau, for 1893, pages 52 and 53, the leading idea is to provide places of refuge and instruction for those persons who, not being able to succeed in getting employment in their own trades and towns, may be encouraged to go upon the land and be prepared for agricultural labor.

The state farm is to comprise about 1,000 acres of land fit for agricultural purposes, and to this farm will be drafted the surplus workmen of the towns. The report states that many of the unemployed in New Zealand are "clerks, stewards, firemen, tailors, printers, etc., who, crowded out of their regular employments, are in a state of destitution; these being in addition to a large body of general laborers who though used to the pick and shovel have no knowledge of work upon a farm." It is thought that these could "assist in the general work of a farm and make its cultivation pay expenses, while, in the meantime, the workmen themselves were being trained to habits and duties fitting them for the general labor market." The programme involves a system of co-operative work, including the erection of cottages intended to accommodate colonists with their families, the idea being that the farms should serve as transit stations through which a steady current of labor, changed from non-effective to effective, should pass.

In 1893 the scheme had not been reduced to a practical demonstration, although land had been secured as an initial step. One year later it is reported that:

52 men, eight women, and 25 children are on the ground, the men doing the preparatory work, cutting roads through the forest, felling bush for burning, planting orchards, &c., getting ready for the permanent homestead to be laid out. Another farm, to the south of Dunedin. has been selected and marked off, but it is as vet in its infancy. The men employed on the State Farm (and to be employed) are engaged on the co-operative system, and are not paid wages except in rare cases, where contract is inadmissible. The workers generally are elderly men, drafted off as to a depot, where their services can be utilised until suitable work for them can be found, if desirable. The manner in which the work is contracted for is as follows: The Manager names a price per chain for some fencing, and some half-dozen men group themselves and take it by contract at that price. Again, if the Manager requires an acre of land dug over with the spade, or firewood cut and stacked, or drains dug, for any of these things he names his price, and the workers accept it if content. As the Manager learns by experience the working abilities of the men, and is instructed to offer them a price which will insure an equivalent to a fair wage if worked at steadily, the men generally accept. Of course, continual refusal to accept work at a fair price would necessitate the removal of the discontented person from the farm. The families on the farm, if arriving destitute, are provided with tents, &c., by the Government. They will not have to pay any rent, but have to erect cottages for themselves with some small State concessions as to timber obtained on the spot. Each family has a half-acre allotted to its occupation for garden and domestic purposes. On a family leaving the farm an allowance will be made for improvements made under the approval of the Manager. This institution is by no means at present a self-governing experiment in any way. Those who wish to form such societies must do so in their own manner by means of special settlements, &c.; but the State Farm is directed by an able agriculturist as Manager, who is appointed by the Government, and who has all the powers of an ordinary employer in arranging the details of his work, subject to his responsibility to the Department of Labor, and in consonance with the co-operative system. It is the intention of the Government, when, after some years, the farm has been cleared of bush and brought under skilled cultivation, to make its working purely co-operative. By that time sufficient knowledge will have been gained as to the character of the men and their families to act as a guide in determining who are to be the permanent residents. The idle and incapable will have been weeded out, and it will be possible, doubtless, to allow the farm to be worked for their own profit by a committee or council of those who have been employed for a long period. In the meantime, it is to be hoped that other farms in the rough state can be acquired and brought into good order on the same system. They would prove of service not only as outlets for the relief of the temporary congestion of the labor market, but for the permanent settlement of families to whom town life offers neither livelihood nor induce-

There is every probability that the State farm will become a paying investment on the capital expended, as well as an outlet for a description of labor—viz., that of elderly men—which cannot find occupation else-

where in times of pressure, which has deserved well of the colony by previous long and hard service.

After another year, the Secretary of the Department of Labor, says:

The experiment has hitherto been confined to a single example, for two reasons: firstly, to test the capability of the Labor Department in Wellington to manage an agricultural community at a distance, and, secondly, to make trial of the quality of the laborers sent, and the utility of their efforts.

I am glad to say that both branches of the inquiry have, in my opinion, borne the test satisfactorily. Little difficulty has been found either in governing the operation from headquarters or in proving that such establishments may be set up in other places to national advantage. The families and single men sent to the farm have behaved exceptionally well, and have been welcomed in the district. The work done has not only been thoroughly good of its kind, but has been performed at very reasonable rates. The resident families sent a year ago to Levin have tided over in a comfortable manner a time of considerable depression in the labor world, and have been securely isolated from that which to many of them would doubtless have been a period of hardship and dire struggle.

Finally, in 1896, after describing fully the details of management, production and expenditure, he says:

I have on many occasions pleaded for more of these farms to be established, and now that the Levin one is past the experimental stage I am sure that others, established on the same lines, would be of great benefit to the Government as one means of reducing the charitable-aid expenditure. There are men on the Levin farm who, if not there, would be living at the expense of the taxpayer. As it is, they are paid a small sum per day for their labor, and are therefore free from that degrading feeling which is inseparable from charity when no equivalent is given in return. We shall be enabled, now that most of the heavy work is done, to employ more of this class of labor. There is also another class that State farms are peculiarly suited for - viz., young able-bodied men who have been brought up as clerks, shop-assistants, &c., but who, from the intense competition that exists in these occupations, have been thrown out of employment. They are willing to tackle manual labor, but have no knowledge, therefore contractors and others are chary of employing them. We can put them on the farm, paying them what they are worth. In a few months' time they will have gained sufficient knowledge to go out and undertake any work for private employers. This would have the effect of taking off the streets of our cities hundreds of men who at present we do not know what to do

I may say, in conclusion, that a short time ago a well-known land expert, who occupies a high position, paid a visit to the farm, and said, if the Government were to cut it up and sell in small areas, the price paid would recoup the Government for all its outlay.

The instances we have cited all illustrate ways, in which, to use the language of the memorial, "the functions of the State can be exercised in the aid of the people in the reclamation and adaptation of land." All of them exhibit a partial measure of success. With the exception of the Aroostook colony, which was of a somewhat different character from the others, and ' which, however successful, presents an example that has not been followed in Maine, none has been tried long enough to pass beyond the experimental stage. The work involved in each of them, except in England, and the incidental hardships, are of course much greater than would be incurred in Massachusetts, where the social advantages that come from organized communities, long established, are at every man's door, and where the question is not one of improving hitherto uncultivated land, but rather one of bringing back land which for many years has supported a vigorous social life.

Several attempts have been made, under private initiative, to promote agricultural occupancy, some of which, in a small way, have been helpful. The farm colony established at Alliance, New Jersey, by the Hebrew Aid Society of New York; the work of the Committee for the Promotion of Agriculture, of the Association for Improving the Condition of the Poor, New York; the cultivation of unoccupied city lots in Detroit and elsewhere; are examples.

On general principles, it may be affirmed that, however necessary State aid, or other organized assistance, may be in the initial stage of such movements, a plan which has in view the stimulation of individual effort, and the withdrawal of outside aid at the moment self-support becomes possible, will be likeliest to succeed. Of course, a scheme which involves temporary occupancy of small holdings of State land, or of land improved and fitted for occupancy by the State, under such conditions that reversion of the land to the State shall occur, if there is failure to show adequate improvement; and even such temporary assistance, as may be required, in the form of seeds, tools, or necessary appliances, the sums advanced therefor forming a lien upon the land to be eventually discharged by

Described at length in the Report of the Commission on the Unemployed; Part V, page xxi.

[†] Hon. Abram S. Hewitt, Chairman.

the occupant, is widely different from elaborate schemes of colonization, or from the maintenance or operation of large farms directly by the State. As we have elsewhere said an experiment of this nature "might possibly settle the question whether any considerable number of persons in the cities of Massachusetts are willing to go upon the land and accept such conditions as are attached to agricultural labor: whether if such persons exist in numbers they are competent to undertake the work, either physically or industrially, or, if not competent, whether they are ready to undertake the training necessary to make them so: these questions can probably never be definitely settled until an opportunity is provided for placing such persons. if they exist. Inquiry as to their existence and theories about them will never be conclusive, until the question is brought to the basis of available opportunity, and settled by a practical working experiment." *

That an experiment is involved is true. The actual expenditure required to make it need not be large, however. The results, whether directly successful or not, or even if only partly successful, would be educative, and might correct some unprofitable theorizing. Money has before been spent in Massachusetts, in sums by no means small, for objects less worthy and not more promising.

CONCLUSION.

The reasons which have led to the changed social and industrial conditions upon the Cape are perfectly plain. The changes are part of the movement, witnessed in all progressive countries, leading away from the rural and remote districts towards the centres of industrial activity.

The Bureau has elsewhere discussed this movement, as it is manifested in Massachusetts.† It is closely connected with all that we call progress, and its causes are the factors which have transformed society during the present century, and which, on the whole, make for wider opportunity, the abolition of caste, increased material comforts, a higher standard of education,—the evidences, indeed, of a broader civilization. The old life cannot be brought back.

[•] Report of the Bureau, 1893; pp. 263 and 264.

[†] Abandoned Farms in Massachusetts. Report for 1890.

The exodus from the Cape towns of the young and enterprising descendants of the native stock is perfectly natural, and nothing else could have been expected under the changed conditions of modern life. There remains in that locality but little continuous employment during the entire year. In the mechanical trades, for example, men, in order to live, must, at certain seasons, engage in cranberrying, scollop fishing, teaming,—any outside employment they can pick up. There is hardly a factory in the whole county, certainly not one of importance.

An active cranberry picker can earn good wages during the season, which averages five weeks. Fishing in favorable seasons is attended with good results when the fisherman is versatile, energetic, and possessed of a variety of gear. In farming, so far as relates to small fruits and garden truck, a fair living can be obtained; but the distance from a good market, the home demand being slight, is the fruitful cause of the abandonment of much good agricultural land.

To put it concisely and plainly, wider opportunities elsewhere, draw the young away. The movement is therefore an economic one. Fight it as we may, object to it as many do, criticise it upon theoretical grounds if you will, the fact remains that this is no incidental or local thing, — it is interwoven with the structure of modern life, and is to be so studied and understood.

There are, it is true, special difficulties encountered in the fishing industry, so long the main reliance of the Cape towns, which have accelerated the movement. Not only hardship and danger dissuade the young from entering or remaining in this industry, but changed methods and customs have apparently diminished the prospect of profit.

Now, everywhere, the larger towns and cities are constantly striving to gain population by the introduction of new industries, by increasing the efficiency of their public schools, by developing in every way the civic advantages which render life within them attractive,—that is, by making it possible to improve one's social and pecuniary position through the opportunity afforded for regular and remunerative employment, not like the fisheries, subject to unforeseen contingencies, hardships, and comparative isolation; nor like agriculture, dependent upon

the seasons, and necessarily conducted away from the centres of social life.

There is, however, another side to the picture. As we have elsewhere said, while it is possible to accept the features of modern civilization as upon the whole good, no one, unless ultra-conservative, can accept them as final, or refuse to recognize the evils peculiar to them. The intense competition involved in the concentration of population in certain centres. re-acts upon those who find the opportunities open to them constantly growing less. There are those in the cities working for low wages, liable to be thrown out of employment in periods of business depression, or who have been attracted to a life for whose struggles they are entirely unfitted, to whom present conditions in the quiet towns upon the Cape would offer an agreeable change.* Before they will make this change however, two things are necessary. They must be convinced that the change is desirable, and, in most cases, aid must be given them to make it.

A stream moves freest along its natural channels. Western Islander, the Cape still offers attractions superior to those at home. Therefore he comes there. So far, apparently, he has done well. His characteristics, as they appear in the description of his life at the Azores, reproduced herein, are such as seem to fit him for life upon the Cape. He takes to the sea, he is accustomed to an insular and therefore isolated home. He develops easily under the freer environment here, and this is manifested in marked improvement when, after long residence in America, he returns to his native land. He is frugal, industrious, takes readily to gardening, and the women are efficient aids in the maintenance of the domestic establishment. The second generation of the Portuguese are commended by the older residents, and are considered desirable accessions in communities which are losing the young people of native birth. But, after all, the Western Islanders are in such small numbers that they are hardly noticed, except in certain sections.

Unless this element of growth is fostered, or others equally desirable are drawn to the Cape, no material increase in the agriculture of the county is likely to take place. Much of the

[•] Cf. Abandoned Farms in Massachusetts. Report of the Bureau, 1890.

land is not ill-adapted to certain crops, and with care and the use of fertilizers would yield good returns; witness the success of the cultivation of asparagus in Eastham. Irrigation would help, indeed is probably necessary, in some districts. The light soil, if irrigated and properly cared for, will yield fine strawberries. Many salt marshes on the Cape have been dyked, and having been ploughed and seeded, produce large crops of hay; but the sub-soil being porous, the land needs, after two or three years, to be heavily dressed. Turnips, asparagus, and small fruits can be grown everywhere in the county with success.

It is, however, the settled opinion upon the Cape, that farming, or that branch of it which includes market gardening, cannot be made profitable there until there are more favorable freight rates and better facilities for reaching city markets.

In but few instances is profitable employment available for women in these towns. During the cranberry season they find work as pickers, and a few are employed in opening scollops or in other light work. The development of the cranberry culture has been considerable in certain towns, and much more might be done in this direction. The local labor market is not sufficient at the time of picking to supply the demand, and, among others, many Portuguese come in from New Bedford or elsewhere, returning at the close of the season.

The general direction which the agriculture of the Cape has taken may be seen from a comparison of the leading crops in the different towns. The total product has already been presented.* In Barnstable, fruits and berries constitute 28.41 per cent and dairy products 18.32 per cent. In Bourne, fruits and berries, 36.79 per cent, and dairy products, 18.23 per cent. In Brewster, fruits and berries, 52.08 per cent, and dairy products 13.13 per cent. In Chatham, fruits and berries 23.24 per cent, and dairy products, 21.63 per cent. In Dennis, fruits and berries, 41.52 per cent, and dairy products, 14.91 per cent. In Eastham, vegetables 38.01 per cent; poultry products, 22.59 per cent; and dairy products, 20.56 per cent. In Falmouth, fruits and berries, 31.16 per cent, and dairy products, 18.07 per cent. In Mashpee, fruits and

berries, 74.56 per cent. In Orleans, poultry products, 33.79 per cent, and dairy products 26.55 per cent. In Provincetown, hav, straw, and fodder 37.97 per cent, and poultry products. 18.38 per cent. In Sandwich, fruits and berries, 28.96 per cent; hay, straw, and fodder, 19.49 per cent; and dairy products, 17.82 per cent. In Truro, dairy products, 32.80 per cent; poultry products, 18.63 per cent; and vegetables. 18.11 per cent. In Wellfleet, dairy products, 26.74 per cent. and poultry products, 25.41 per cent. In Yarmouth, fruits and berries, 50.19 per cent, and dairy products, 16.91 per cent. These comparisons show the leading crops, cranberries being classed under fruits and berries. Following the line of least resistance, improvement could probably be easiest secured by expanding the specialties named: that is, by stimulating the cultivation of small fruits, the cranberry, vegetables (including asparagus, as at Eastham), and dairy and poultry products.

This report is merely one of inquiry. The presentation of facts called for has been made. Present conditions upon the Cape, and the change from past conditions have been sufficiently portrayed. The possibility of carrying gardening to a still higher point, and thereby aiding those who are engaged in the precarious industry of fishing, to enlarge their yearly income; of helping the Western Islanders who are already here to maintain their foothold and become permanent citizens; of aiding those to whom city life offers no hope of advancement to better their condition by going upon the unoccupied land; of improving the land owned by the State and providing for its acquisition in small lots on favorable terms by those who would cultivate it, - all these things have been indicated. If any plan of State aid in either of these directions is proposed, it must of course be preceded by legislation, and those who propose it would be charged with the duty of formulating their plan defi-That is not the province of this Bureau under the present inquiry. Any plan would require careful thought, and to execute it, however well considered, would require the highest administrative ability, united with a sympathetic interest in the objects to be attained. These remarks are equally applicable to organized aid through private initiative. The rehabilitation of the Cape towns, in any degree, cannot be brought about by sentiment alone; hard, practical common sense is needed. This, however, does not mean that sentiment is to be disregarded, or that it does not have its place, even here.

Mr. Brice, speaking of rural New England, has said, "It is impossible not to regret the disappearance of a picturesquely primitive society which novelists and essavists have made familiar to us, with its delightful mixture of homely simplicity and keen intelligence. Of all the types of rustic life which imagination has since the days of Theocritus embellished for the envy or refreshment of the dwellers in cities, this latest type has been to modern Europe the most real and not the least It will soon have passed away. * * * * * But the Irish squatters on the forsaken farms rear their children under better conditions than those either of the American cities or of the island of their birth, and they are replenishing New England with a vigorous stock." This is measurably applicable to the Cape, and to the influence of immigration there. exceedingly difficult to divert the current of population by any artificial means into directions different from those taken under the pressure of social conditions which generally prevail. That organized effort may do something to relieve congestion or draw into other channels those to whom such a change would be beneficial, and thus effectively aid the results indicated by Mr. Brice. is possibly true.

PART II.

GRADED WEEKLY WAGES:

MASSACHUSETTS, OTHER UNITED STATES, AND FOREIGN COUNTRIES.

1810-1891.



PART II.

GRADED WEEKLY WAGES.

In the Bureau report for 1895, an extended tabular presentation of Graded Weekly Wages was given, covering returns for branches of occupations alphabetically arranged under the letters A, B, and C. It was announced that this form of presentation would be continued throughout the entire alphabet, and would be followed by statistics of Graded Prices of the United States and Foreign Countries.

The tabular presentation was preceded by several pages of explanatory material, and it has been deemed necessary for the proper understanding of the tables presented in this Part to reproduce these explanations. We quote, as follows, from pages 419-421 of the report for 1895:

The subject of wages, earnings, and cost of living has received continued and exhaustive consideration in the reports of this Bureau. Inasmuch as the terms "wages" and "earnings" are frequently used as synonymous, and as the term "salary" is always used to designate the compensation of certain classes of workers, we shall, at the outset, define exactly what is usually meant by these terms in the Bureau reports, including the present volume.

By "wages" is meant nominal or money wages, i. e., the sum paid in employments, mainly manual and mechanical, for a specified and comparatively short term of service, usually an hour, day, or week, and never exceeding, although sometimes covering, a month; or, in the case of piece workers, the sum paid for a specified amount of work; usually, however, reduced to a sum per day or week, based on the amount which would be paid to an average worker constantly employed, within the specified time, at the common piece rate.

By "salary" is meant, the sum paid in employments mainly mental, for services rendered within a specified period of time, longer than that for which the term "wages" is used, generally a year, although sometimes restricted to the quarter or the month, but usually implying permanence of employment.

As a general rule, when wages are paid as above defined, deductions of pay are made for short time, lost time, vacations, etc. When salaries are paid, however, such deductions are not usually made. The general prin-

ciple covering this apparent discrimination, in manufacturing industries at least, is undoubtedly founded upon the fact that when a wage worker is absent from his post, production ceases as far as he is concerned, and the employer pays only for actual production; on the other hand, the duties of salaried workers are usually of such a nature that temporary absences do not curtail production. If the wage worker could "make up" for lost time, and thus keep up his average production, the same principle would undoubtedly govern his wages as governs the salary of the salaried worker.

The subject of earnings has not received quite as full consideration in past reports of the Bureau as that of wages, but the presentations are nevertheless numerous and copious. By "earnings" is usually meant the amount actually received for work within a given period, usually a year. Of course short time, and lost time from various causes (including time taken for personal uses, on account of sickness, stoppages, fires, accidents, unemployment from dull trade, etc.) all operate to reduce the workingman's earnings although his wages as above defined remain the same. For instance, if a workingman's weekly wages are \$10 his yearly wages are \$520. If he loses, from various causes, ten weeks' time, his yearly earnings are but \$420.

From this explanation it will appear that the terms "wages" and "salary," as used in the reports, are generally synonymous with rates paid per unit of time, this unit being either the hour, day, week, month, or year, while the term "earnings" is synonymous with actual income received for services performed at such rates. It may therefore happen in times of industrial depression that wages may remain stationary, or even advance, and yet earnings may show a marked reduction.

The closely related subject of prices, or cost of living, has also engaged the attention of the Bureau, and its past reports contain large contributions to the statistical side of the question. It is evident that the real measure of value of a workingman's earnings, or his rcal wages, as distinguished from his nominal or money wages, are the commodities that his earnings will buy. His ideal condition would apparently be found wherever high wages and low prices rule. But there are various factors which affect wages and prices, and these must be so adjusted that low prices for certain products will not necessarily mean low wages for the workingman engaged in their production. For obvious reasons, earnings are higher in certain industries than in others, but it is essential to general industrial prosperity that the earnings in no industry or occupation should be forced below the amount necessary for the comfortable maintenance of the worker and the family dependent upon him.

Closely allied to prices or cost of living is the subject of the purchasepower of money, or the quantity which a given sum, usually, so far as the Bureau reports are concerned, one dollar, will buy of the same article, in different localities. The dollar which is used in such comparisons, in the Bureau reports, is the standard gold dollar of the United States, in order that fluctuations due to currency values, which may differ at different periods, may be eliminated as far as possible.

Having briefly defined the Bureau interpretation of wages, salary, earnings, prices or cost of living, and purchase-power

of money, the report for 1895 contained in condensed form a summary of the past reports of the Bureau relating to these subjects. These reports are out of print and cannot now be supplied by this Bureau. This summary showed the inception and growth of the Bureau's method of treating these subjects. It has not been deemed advisable to reprint these quotations from the reports, and the reader is therefore referred to pages 421 to 434 of the Bureau report for 1895.

EXPLANATION OF GRADED WEEKLY WAGE TABLE.

The total number of quotations used in the statistics of wages and prices is, in round numbers, 656,000. Of these, the wage quotations number 489,600 and the price quotations 166,400.

We quote from the Report for 1895, pages 434-436, the following explanation of the Graded Weekly Wage table, the information there contained being equally applicable to the presentation in this volume:

The distribution by states and countries, and by sex, for the wage quotations, is shown in the following table:

				- 1	Number of Wage Quotations for					
STATES AND C	HTKUO	IES.			Males	Females	Both Sexes			
Massachusetts,					251,500	36,200	287,700			
Other United States,			. •	.	121,400	6,300	127,700			
Foreign Countries, .					58,000	16,200	74,200			
Totals,				. [430,900	58,700	489,600			

Number of Wage Quotations.

The distribution by states and countries as regards price quotations is shown in tabular form as follows:

Number of Price Quotations.

	Number of Price Quotations						
Massachusetts, .			•				109,500
Other United States,						. [43,700
Foreign Countries,	•	•	•			.	13,200
Totals; .							166,400

The number of wage quotations, as has been stated, is, in round numbers, 489,600.

It is impossible to state how many employés are represented by these In some cases a quotation represents the weekly wage of but one person; sometimes five, 10, 50, or 100 persons are represented by a single quotation; in other cases hundreds or even thousands of employés are comprehended by a single quotation. It would be the merest guesswork to fix any number of employes for the half million quotations. It cannot be less than 500,000 employés. The quotations may represent five, 10, 15, or even 20 millions of employés. It should be borne in mind that, as the quotations cover the years from 1810 to 1891, where consecutive returns were made from year to year by the same establishment, the same employes may be and probably are reported for more than one year. — but the basis is quotations and not employés. It does not therefore make any difference whether the weekly wages reported from year to year are for the same employés or for different ones. As a matter of fact, if the returns were for the same employes in the same factories from year to year. it would increase rather than diminish the statistical value of the quotations.

The method of presentation is simple. In the first column in the table (see page 111) the occupations, states, and countries are mentioned. The name of the branch or division of occupation is first mentioned, and then, if not sufficiently explicit, the name of the article or articles manufactured. Under the subheading "United States" are given the names of the different States of the United States included in each presentation, and under the subheading "Foreign Countries" the names of the different foreign countries so included.

The second column indicates the sex, the letter "M" being used to indicate males and the letter "F" to indicate females. In the third column the years are given, ranging from 1810 for foreign countries, and from 1824 for the United States, to the year 1891. This full range of years does not appear in any single presentation, but, taking the occupations presented, as a whole, the entire range of years, previously referred to, is covered

The fourth column indicates the grade. There are five grades used, as follows: High, Medium High, Medium, Medium Low, and Low. These grades are indicated typographically as shown below:

H						High.
$\mathbf{m}\mathbf{h}$						Medium High.
						Medium.
\mathbf{ml}						Medium Low.
L						Low.

The fifth column contains the weekly wages expressed in dollars and cents. Where the foreign quotations were given in the money of foreign countries, they have been reduced to the United States standard according to the plan followed by the United States Treasury Department, and due attention has been paid to currency quotations. They have been brought in all cases, to the gold standard for purposes of comparison.

The table which follows contains the quotations of Graded Weekly Wages for occupations whose initial letters are either D, E, F, or G.

GRADED WEEKLY WAGES.

Cocupations				ADE	D 11 13	ERLI WAGES.				
C H M A M D BYONE WARE CON. F STONE WARE CON. F CON. F CON. England, M 1885 M 1885 M 1890 M	STATES, AND COUN-	Sex	Years	Grade	Weekly Wages	STATES, AND COUN-	Sex	Years	Grade	Weekly Wages
Illinois	(China and Stone Ware).					(CHINA AND STONE WARE)—				
Massachusetts, . M 1885 M 1500 M 1800			1004	v	614 40	Foreign Countries				!
Massachuseits,	Maryland,	M	1885	M	15 00		122	1040		A0 00
F	Massachusetts	F	1885		7 20	Augiaud,	1	1	L	1 80
New York, M 1885		F		M	8 00		M	1863		7 20
New York, M 1885 H 1890 M 1885 M 1890 M		M	1891	H	18 00		F		H	5 04
New York, M 1880 M 1885 M 1890 M 1885 M 1890 M 1885 M 1890	w v	١.,		L	12 00		M	1866		2 88
F	Mew Jersey,	M	1879	M			-		M	6 48
M 1880				L	12 00		F		M	2 16
March 1880 March 1880 March 1881 Marc		ŀ		L	6 00		M	1871		11 52
F		M	1880	H			-			1 44
M		_	1	L	12 00		M	1874	H	8 28 7 20
M		F		H	9 00				M	6 00
March 1881		١.,		L	3 96		M	1877		
F		M.	1991				_		mh	10 32
M 1885		-		L	12 00	ļ	1			
Market M		-		L	6 00		1	1070	L	2 16
F		M	1885					1010	M	8 64
F		1		M	12 00	1	l			
Mare 1800 Mare 1800		1			8 00				M	6 00
M 1886 M 1886 M 1887 M 1887 M 1890		F			10 00		M	1883		17 28 7 20
M 1886					4 00	Germany,	M	1877	H	9 00
Rew York, M 1888 M 1890 M 1890 M 1888 M 6 00 M 1885 M 6 00 M 1885 M 6 00 M 1885 M 6 00 M 1885 M 6 00 M 1885 M 6 00 M 1887 H 5 76 M 1887 H 5 76 M 1887 M 1890 M 1888 H 5 76 M 1887 M 1890 M 1888 H 5 76 M 1887 M 1890 M 1890 M 7 20 M 1890 M 1890 M 7 20 M 1890 M		M	1998	L	8 00				L	4 50
F			1000	mh	18 00		M	1878		
F							1		ml	5 88
New York, M 1888 H 20 00 00 1887 H 4 82 4 84 1886 H 2 4 84 1886 H 2 4 84 1886 H 2 4 84 1886 H 2 4 84 1886 H 2 4 82 1886 H 2 4 82 1886 H 2 4 82 1886 H 2 4 82 1886 H 2 4 82 1886 H 2 4 82 1886 H 2 4 80 1887 H 2 4 80 1887 H 2 4 80 1887 H 2 8 1886 H 2 8 18				L	7 98		м	1884	L M	4 50 6 00
New York, M 1888 H 21 00 mh 17 02 M 13 34 M 1888 H 4 30 M 1880 M 1880 M 6 05 M 1887 M 15 76 M 1880 M 6 05 M 1887 M 16 50 M 1887 M 16 50 M 1887 M 18 00 M 24 00 mh 12 00 M 12 00 M 12 00 M 12 00 M 12 00 M 12 00 M 13 50 M 1887 M 13 50 M 13 5		*					M	1885	M	6 00
New York, M 1888 H 21 00 mh 17 02 mh 180 mh 17 02 mh 180 mh 180 mh 16 05 mh 180 mh 16 05 mh 180		1					1 23	1		2 40
Color Countries Color	New York,	M	1888	H	21 00		M	1888		5 76
P						Great Britain,			M	6 05
Ohio,					9 00					5 71 9 60
Ohio, M 1882 M 1887 H 48 00 mh 36 00 mh 18 00 M 18 00 M 18 00 M 10 50 mh 10 50		F			15 08				M	7 20
M 1887 H 48 00 mh 35 00 M 24 00 mi 18 00 L 9 00 L 9 00 M 12 00 M 18 00 M 1	Ohio	w	1882	L	7 56 16 50		F		H	4 80
F				H	48 00		l		L	2 88
F		1				Designers (TEX-	ĺ			
Foreign Countries. England, M 1860 H 187 H 8 64 M 1890 M 18 00		1			18 00		l I			
Massachusetts, Mathematical Ma		F			18 50	Connecticut,	M	1860	M	13 50
Foreign Countries		1						1887		
Foreign Countries. England, M 1857 H 8 64		l		ml	9 00	Maine,	M		M	18 00
England, M 1857 H 8 64 M 7 20 M 1800 M	Romalam Charment		l	L	6 00	Massachusetts, .	M	1885		
M 1860 H 36 00 mh 30 00 mh 7 20 M 24 00 mh 18 18 18 18 18 18 18 18 18 18 18 18 18	•	, M	1957		ا يه ه		1		M	18 00
M 1860 H 864 M 1891 H 36 00 mh 30 00 M 24 00 mt 18 00	engianu,	,	1991	M	7 20		ļ		L	7 50
mh 7 20 M 24 00 mt 18 00		M	1860				M	1891		36 00
		-		mh	7 20	1	1	ł	M	24 00
			l							
		1	<u> </u>		1	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1

GRADED WEEKLY WAGES - Continued.

Occupations, States, and Coun- tries.	8ex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Designers (TEX- TILES) — Con.					Designers (TEX- TILES) — Con.				
United States - Con.					Foreign Countries			{	
New Jersey,	M M	1883 1886	M	\$15 00 40 00	— Con. Great Britain,	M	1886	L	\$ 7 98
New York,	M	1886	L H	12 00 48 00	Tralend	F	1055	M	1 92
New lork,	_	1000	mb M	86 00 25 02	Ireland,	M	1855 1856 1857	M	14 40 14 40 9 60
	M	1888	ml L H	15 00 7 50 18 00	Scotland,	M M M	1860 1883	M	9 60 8 40
			L	5 00	Scottand,		1863	H L	7 20 2 40
Pennsylvania,	M	1869 1870	M	24 96 24 96		M	1877	H	16 80 7 68
	M	1871	M	24 96		M	1886	H	18 04
•	M	1872 1873	M	24 96 24 96				L	7 20
	M	1874	M	24 96	Die Makers and				
	M	1876 1876	H	24 96 38 46	Sinkers.				
	м		L	24 96	United States.				
	M	1877 1878	M M	24 96 24 96	Connecticut,	M	1874 1887	H	36 00 25 27
	M	1879 1880	M M	30 00 80 00		_		M	21 00
	M	1890	M	86 00	Massachusetts, .	м	1839	L M	17 69 9 00
United States (not specified),	м	1879	M	24 71		M	1840	M	19 98
specimen),	M	1880	M	24 71		M	1850	H	19 98 13 50
						м	1856	L	11 22 16 02
Foreign Countries.						M	1860	M	18 00
England,	M	1839 1849	M	7 20 9 00		M	1870 1880	M	19 98
	M	1859	M	15 60		M	1885	M H	25 50 40 38
	M	1866	H	12 00 9 60				M	24 00
			ml	8 64				mi L	16 67 7 50
	м	1868	L H	7 20 12 00		M	1886	M	27 00
	_	1000	M	8 40			1891	H mh	39 00 28 00
	м	1874	L H	7 20 14 40	İ			M	24 00
		1014	M	13 20				mi L	16 50 9 00
	M	1877	L H	9 60 28 80	New Jersey,	F	1884	M	6 00 15 00
		2011	mh	24 00	1	M	1888	M	16 80
			M ml	14 40 12 00	New York,	M	1888	H mh	80 00 24 00
			L	9 60		l		M	18 00
	М	1880	H L	14 40 8 40		1		ml L	15 00 6 00
	M	1882	M	12 00	Foreign Countries.			•	0 00
	M	1883	H	18 00 14 40	England,	м	1839	M	13 92
			ml	18 20	Juginua,	M	1849	M	10 80
	м	1885	H	10 80 19 50	Scotland,	M	1859 1866	M	11 52 9 60
			L	10 95		_	1000		- ~
	M	1886	H mb	18 00 15 60	Doffers (Cotton,				
			M	12 20	Woollen, And				
			ml L	8 40 7 20	OTHER TEX-				
Grant Buitain	M	1888	M	24 00	United States.				
Great Britain,	M	1880	H	14 52 13 31	California,	м	1885	н	4 20
	\ , \	1000	L	8 47		i		L	3 00
	M	1883	H	19 46 14 60		M	1888	H L	4 20 3 00
		1000	L	9 73		F	l	M	2 40
	M	1886	н	9 60		M	1890	M	3 00

GRADED WEEKLY WAGES -- Continued.

Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
STATES, AND COUN-	M M M M M M M M M M M M M M M M M M M	1864 1865 1862 1863 1862 1863 1864 1865 1866 1867 1871 1872 1878 1874 1876 1877 1878 1879 1880 1880 1880 1880 1880 1880 1880 188	Grade MMMMMMHLHLHLHLHLHLHLHLHLHLHLHLHLHLHLHLH		STATES, AND COUN-	Sex MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	Years 1871 1872 1873 1874 1876 1876 1876 1876 18876 18876 18871 18878 18864 18879 18871 1878 1878 18888 18886 18898 18886 18898 18898 18886 18898 18871 1872 1873 1874 1875 1876 1877 1878	Grade - THI MENTAL MEN	
Indiana,	M M M M M M M M M	1878 1879 1880 1886 1866 1867 1868 1869 1870	M M M M	2 10 2 10 2 10 2 52 8 90 3 90 8 90 8 90 8 90	Massachusetts, .	MMFMFFF	1880 1885 1886 1824 1836	M H L H L M M	1 50 3 00 8 00 1 80 3 00 1 80 2 40 2 22 3 46

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Doffers (Cotton, Woollen, AND OTHER TEX- TILES) — Con.					Doffers (Cotton, Woollen, And Other Tex-				
United States-Con.					United States - Con.				ļ
Massachusetts, .	FFMFMM	1887 1838 1840 1850 1851 1852 1853	M M M M M	\$3 42 2 94 2 76 2 76 2 40 2 40 2 40 2 40 2 70 8 00 8 00 8 00	Massachusetts, .	M F M	1886	ml L H M L H mh	\$4 20 2 70 6 18 4 38 2 28 7 50 6 00
	H M M M M M M M M M M M M M M M M M M M	1854 1855 1856 1857 1858 1859 1860	M M M M	2 40 2 40 2 40 2 70 8 00 8 00 8 00 8 00 8 00		F		M mi L H mh M	5 00 4 00 2 82 7 00 6 00 4 80 8 60
	F M M M	1861 1862 1863	M H L H L	2 52 8 00 8 00 1 80 8 00 1 98	Missouri,	M M M M M M M	1870 1871 1872 1878 1874 1875	L M M M M	2 40 8 25 3 25 2 10 2 00 2 00 2 00
	M	1865 1866 1867 1868	M H L H L	8 96 4 50 4 80 3 30 8 60 2 60	New Hampshire, .	MMMMM	1876 1877 1878 1879 1880 1837 1842	M M M	1 74 1 50 1 85 1 50 1 50 2 50 3 18
·	M F M	1869 1870 1871 1872	M M H L	8 60 5 40 4 02 2 88 4 44		M M M	1847 1850 1851 1852	H L H L	3 48 2 70 1 50 2 70 1 50
•	M	1873 1874 1875	L H L H L	2 52 4 11 2 82 1 35 8 72 1 80		M	1853 1854 1855	L H L H L	2 70 1 50 2 70 1 50 2 70 1 50 3 00
	M	1876 1877 1878	L H L H L	8 78 1 68 8 42 2 10 8 60 2 07 8 60		M M	1856 1857 1858	L H L H L	1 50 2 70 1 50 2 70 1 50 2 70 1 50
	M F M	1879 1880 1883	H L M H mh	2 22 3 60 4 26 6 00 4 98		М	1859 1860	L H L H M L	1 50 2 70 1 60 4 02 3 00 1 50
	F M	1885	M L H L H	3 90 1 80 5 40 3 60 9 30 7 20		M M M	1861 1862 1863	H L H L H	3 00 1 62 3 00 1 50 3 00
!	F		M ml L H mh	8 50 3 66 1 80 6 50 5 40		M	1864	L H L H L	1 50 5 52 3 60 1 50 5 10 1 80
	м	1886	M E H M	4 08 2 70 1 44 8 10 5 34		M	1866	H L H M	6 00 3 30 1 80 6 60 3 30

GRADED WEEKLY WAGES - Continued.

						_			
OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Doffers (Cotton, Woollen, and Other Tex- tiles) - Con.					Doffers (COTTON, WOOLLEN, AND OTHER TEXTILES) — Con.				
United States - Con.	ł			i	United States - Con.			l	
New Hampshire, .	M	1867	L	\$1 80	New York	M	1864	M	88 86
	M	1868	H M L	6 60 6 40 1 80	,	M M	1865 1866 1867	M M M	3 36 3 72 4 06
	M	1869	H	6 60 1 80		M	1868 1869	M	4 08
	M	1870	H M L	6 60 4 02 1 98		м	1870	H L H	4 08 2 52 4 08
	M	1871	H	6 00		M	1872	L H	2 52 4 08
	M	1872	H	1 98 6 60		M	1873	H	2 52 4 08
		Ì	mh M L	5 40 4 02 1 98		м	1874	H	2 52 8 72 2 22
	M	1878	H	6 60		M	1875	H	8 72 2 40
	M	1874	H	6 60		M	1876	M	8 36 8 00 8 00
	M	1875	L H	3 60 1 74 5 70		M	1878 1879 1880	M	2 76 3 86
	_	10.0	mh M	4 62 8 60		M	1884 1885	M	4 50 4 50
	м	1876	H	1 98 5 58		M	1886	mh	6 00 4 50 3 00
	M	1877	L H	4 20 1 98 4 98		F	j	L H	3 00 1 98 4 50
			M L	8 42 1 98				M L	3 30 1 98
	M	1878	H M L	4 98 3 42 1 98		M	1887 1888	M H M	4 50 6 75 4 50
	M	1879	H	4 98 3 60		ļ	ĺ	ml T.	3 00 2 00
	м	1880	L	1 98 4 80	North Carolina, .	F	1886	M	8 60 2 52
	_		T.	8 48 1 98		F M	1887	M M M	2 52 2 70 2 70
	F	1883	H	5 22 8 00	Pennsylvania,	F M M	1877	M	2 70 4 98
	M	1886	H	4 80		M	1878	i ML	8 60
	F	ļ.	L	3 00 4 50		M	1880 1886	M	8 00
	1		L	3 00		F	1888	M	4 00
New Jersey,	M	1882 1883	M	2 00	Rhode Island,	M	1882 1887	M	4 87 8 10
	F	1884	M	2 00		1	1	L	6 90
	F	1885	M	5 00		M	1888	M	7 28 4 80
	F	1886	M	4 00 2 70		F	1889	H L	4 80 2 10
	F	1888	M	2 46	Tennessee,	M	1874	M	1 80
New York,	M	1860	M	2 28 2 28		M	1875 1876	M	1 80 1 80
	M	1851 1852	M	2 28 2 28		M	1877	M	2 04
	M	1853	M	2 28		M	1878	M	2 04
	M	1854	M	2 28		M	1879	M	2 22
	M	1856 1856	M	3 00	United States (not	M	1880	M	2 22
	M	1857	M	3 00	specified),	M	1877	H	3 60
	M	1858	M	3 00		1	ł	L	2 10
	M	1859	M	8 00	Vermont,	M	1886	H	8 60 2 52
	M	1860 1861	M	8 00		F	1	L M	2 52
	M	1862	M	3 00	Virginia,	M	1886	H	3 00
	M	1863	M	8 86		1		L	1 98
	!	<u> </u>		i	<u> </u>	1	<u> </u>	<u> </u>	<u></u>

GRADED WEEKLY WAGES - Continued.

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Doffers (Cotton, Woollen, And Other Textills) — Con. United States - Con.					Doffers (COTTON, WOOLLEN, AND OTHER TEXTILES) — Con. Foreign Countries				
Wisconsin,	M M M	1875 1876 1877	M M M	\$3 25 3 25 3 25	— Con. Scotland,	M F	1882 1883	M	\$1 94 1 68
	MMM	1878 1879 1880 1888	M M H	3 25 3 25 3 25 3 25 3 25 5 76		F	1886	H L H M	1 44 0 42 2 68 1 44
Foreign Countries.		1000	Ĺ	8 86	Switzerland,	м	1882	Ľ M.	0 36 2 12
Belgium, England,	M M F M	1882 1839 1849	M M M	8 15 1 20 0 96 1 32	Door, Sash, and Blind Makers. United States.				
	F M F	1859	M	1 08 1 44 1 20	California,	М	1884	H M L	21 00 15 00 13 50
	M F M F	1861 1866 1868 1874	M M M	1 50 0 96		M	1885	H M ml L	24 00 18 00 15 00 12 00
	M	1877	H L M	8 12 1 44 2 16	Connecticut,	M	1888 1875	H L H	18 00 15 00 24 00
	M M F	1878 1880	H L M M	2 10 2 16 1 44	Iowa,	M	1887	M L H M	21 00 18 00 11 40 9 00
	M F	1883	H L H L	2 40 0 42 1 92 0 60	Maine, Massachusetts, .	M	1887 1883	ml L M H	7 50 6 00 10 50 15 00
	M M F	1884 1885	M M H	2 19 1 22 2 00	Massacius cita, .		1000	mh M mi	12 00 10 50 9 00
	M	1886	L H M L	1 00 2 98 1 68 0 84		M	1885	H mh M	7 50 18 00 15 00 12 00
England and Scot-	F		H	2 16 0 36		м	1891	ml L H	10 50 7 50 21 00
land,	M F M	1886	H L M M	2 60 0 48 1 68 1 66				mh M. ml L	16 50 15 00 10 50 7 50
Great Britain,	F M F	1885 1886 1880	M M M	1 66 1 62 2 18	Michigan, Missouri,	M M M	1883 1882 1883 1880	M M M H	18 50 19 50 19 50
	M	1883	H M L	8 90 2 22 0 68	New Jersey,	M	1885	H H L	9 00 12 61 9 00
Ireland,	F	1886 1877 1883	H L M	1 86 0 48 1 32	New York,	M M M	1888 1888 1884 1885	M M M	18 50 15 00 15 00 16 50
	P M	1886	M H L	1 44 1 32 1 56 0 42 2 70		M	1886 1887	M H mh	18 00 21 00 18 00
	F	1890	H M L	2 70 1 42 0 36 2 43		M	1888	M ml L H	15 00 12 00 9 00 21 00
	F	1882	H L M	1 43 1 45		, m	1000	mh M	18 00 13 50

	_								
OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Door, Sash, and Blind Makers — Con.					Doublers (Cot- ton, Woollen, and Other Tex-				
United States - Con.	1	ł			TILES) — Con.		1		
North Carolina, .	M	1887	H	\$9 00 7 50	United States - Con.		1070		A 4 00
]	1	M L	6 00	New Jersey,	M	1872	H	\$4 98 2 46
Ohlo,	M	1890 1887	M H L	9 00 12 90 9 00		M	1878	H	4 50 8 00
Pennsylvania,	M	1871	H	21 00			1874	H	8 24
Wisconsin,	M	1888	L H L	15 00 9 00 6 00		M	1876 1876	M H L	4 98 4 50 8 24
	ļ	l	"	1 000		M	1877	H	4 50
Foreign Countries.						м	1878	H	8 00 4 50
England,	M	1877	H L	8 64 7 20		l		L	8 24
	M	1880	H	8 64		M	1879 1880	M	4 98 6 60
Doublers (Cor-	ŀ		L	7 20				M	4 50
TON, WOOLLEN, AND OTHER TEX-						M	1882 1888	L M M	3 00 4 00 5 50
TILES).						M	1884	H	6 00
United States.						F		H	4 00 6 00
Connecticut,	M	1869 1870	M	6 00 6 48		м	1885	L H	4 00 5 00
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	M	1878 1879	M	5 40 5 40		F	ŀ	H	6 50 5 00
	M	1880	M	6 00	New York,	M	1886	H	8 52
Delaware,	M	1886 1886	M	6 00 8 96			i	M L	6 18 3 86
Maine,	M	1886	H	4 80 8 72		F	l	H	9 60
	F	1	L M	2 40				M L	6 48 4 62
Massachusetts, .	M	1836 1837	M	4 20 4 98		F	1888	H	8 00 5 50
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OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Doublers (Cotton, Woollen, and Other Textiles) — Con. Foreign Countries					Draughtsmen — Con. United States - Con. Massachusetts,	M	1891	н	\$ 33 00
- Con.						_		mh	27 00
England,	M F M F	1885 1886	MHLHLHML	\$2 43 3 40 1 70 6 32 2 40 3 72 2 68 1 32	Michigan,	M M M	1884 1886 1891	M ml L H L M H mh	21 00 15 00 12 00 21 00 18 00 30 00 24 00 20 77 17 30
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,	F	1000	L H	3 62 8 36	Missouri,	M M	1858 1859	M M M	9 60 9 60 9 60
France,	F	1882	L M	2 16 2 45		M	1860 1861	M	9 60 7 98
Great Britain,	F M	1880	H L M	2 90 1 69 3 84		M M M	1862 1863	M M	9 00 12 00
	F	1000	H M L	4 30 2 46 1 52		M M M	1864 1865 1866	M	16 50 18 00 21 00
Scotland,	M	1886	H L	2 50 1 44		M	1867 1868 1869	M M M	19 50 18 00 18 00
	F		H M	4 14 2 64		l Mr	1870 1871	M	18 00 18 00
Wurtemburg,	F	1882	L M	1 20 2 38		M M M	1872 1873 1874	M	18 00 18 00 16 20
Draughtsmen.						M	1875 1876	M M	16 20 15 00
United States.						M	1877	M	15 00
California,	M	1886	H	27 00		M	1878 1879	M	18 50 13 50
			mb M	21 00 15 00		M	1880 1889	M	15 00 38 82
Connecticut	м	1887	L H	7 98 20 35	New Hampshire, .	M	1864 1865	M	21 00 21 00
Delaware.	M	1886	I M	12 07 24 00		M	1866 1867	M	21 00
Illinois,	M	1875	M	18 00		M	1868	M	21 00 21 00
	M	1876 1877	M M	18 00 15 00		M	1869 1870	M	24 00 24 00
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	M	1880	M	16 50		M	1872 1873	M	24 00 24 00
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	M	1876	M	18 00		M	1878	M	24 00 24 00
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	M M	1879 1880	M	16 50 16 50	New Jersey,	M	1883	H	50 00
	M	1886	н	21 00		М	1884	M	15 00 24 00
			M L	15 00 12 00	New York,	M M	1888 1873	M	18 00 12 00
Maine,	M	1860 1866	M	16 50 16 50		M	1874 1886	M	12 00 18 00
	M	1870 1877	M M	18 00				L	12 00
	M	1879	M	16 50 16 00		M	1888	mh	42 00 81 00
		1880	M	18 60	1	1	l	M	24 00
Massachusetts, .	M	1885	H	24 00			1	m¹	76 00
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OCCUPATIONS, Sex Years Grade Weekly Wages States, and Countral Sex Years Grade Weekly Wages TRIES.		_								
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M		l Mr	1868	M	15 00		M	1884	M	17 08
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M		M	1871	M	15 00		M	1881	M	10 50
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GRADED WEEKLY WAGES - Continued.

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M				L	8 12		М	1874	H	5 22
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F				ml	6 60		M	1875	H	5 58
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M. 4.55 New Jersey, F 1885 M. 6.00		F		H	5 94		_		L	8 72
				M	4 56	New Jersey,	F	1885	M	6 00

Occupations, . States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Drawers-In (Tex- TILES) — Con. United States - Con. New Jersey,	¥	1886	н	\$6 50 5 50	Drawers-In (TEX- TILES) — Con. United States - Con. Rhode Island,	F	1889	H	\$7 50 6 00
New York,	F M M	1888 1861 1852	L M M M	4 20 5 40 2 72 2 52	Tennessee,	м	1874	ml L M	5 00 4 00 8 00 3 42
	MMMM	1858 1854 1855 1856 1857 1858	M M M	2 52 2 52 8 00 8 00 3 00 2 64	,	M M M M M	1875 1876 1877 1878 1879 1880	M	3 42 3 42 3 42 3 42 8 60 8 60
	M	1859 1860 1861	M M M	8 75 8 75 8 75	United States (not specified),	F	1877	H L	5 40 2 70
	M	1862 1868 1864 1865	M M M M	3 75 3 90 3 96 3 96	Vermont,	F	1886 1886	H L H M	6 78 4 80 6 60 4 98
	M M M	1866 1867 1868	M	4 98 5 52 5 52	Wisconsin,	M	1876 1876	L M M	8 00 4 00 4 00
	M	1869 1870 1871	M M H L	5 52 5 52 5 52 3 78		M M M	1877 1878 1879 1880	M M M M	4 00 4 00 4 00 4 00
	M	1872 1873	H L H L	5 52 3 66 5 52 8 84	Foreign Countries.	M	1888	M	4 50
	м	1874 1875	H L H	4 98 3 30 4 98	Bavaria,	M	1882 1882	H L H	2 90 1 66 3 40
	M	1876 1877	L H L H	3 24 4 80 3 18 4 20	England,	F	1857 1858	L M H	2 25 2 64 2 88 1 44
	м	1878	L H L	3 00 4 20 3 12		F M F	1863 1866	L M M M	2 64 2 16 3 16
	M	1879 1880 1884	H L M	4 02 4 50 8 00 4 20		F F M	1868 1874 1877	M M H L	2 88 2 88 6 00 2 16
	M M F	1885 1886	M H L H	4 20 10 80 2 28 8 40		F		H mh M L	4 74 8 48 2 64 1 56
			M ml L	5 40 8 72 2 28		F	1878 1879 1880	M	4 50 3 12 3 36
	M	1887 1888	M H mh M	4 02 7 68 6 00 5 00		M	1882	M L M M	2 28 1 68 4 25 3 36
North Carolina, .	м	1886	ml L H L	8 90 2 50 4 50 3 00		M	1883	H L H	4 62 2 16 4 62 3 60
Pennsylvania,	F M F	1874 1876	M M M	3 60 5 50 3 96		M	1884 1885	L M M	1 68 4 32 4 62
	F M	1877 1879	M H L M	5 34 7 26 5 88 4 50		F M	1886	H L H	4 62 2 25 8 76 6 76
	M F F	1884 1886 1888	M M H M	4 26 4 02 7 20 5 94		F		M ml L H	4 80 8 06 1 20 6 24
			L	4 50				mh	5 12

Occupations, States, and Coun- tries.	8ex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Drawers-In (Tex- TILES) — Con. Foreign Countries — Con.					Dressers (Cotton, Woollen, And Other Textiles) - Con.				
England,	F	1886	M ml T.	\$8 92 2 70 1 56	United States - Con. Connecticut,	м	1860	H	\$9 00 7 75
France,	M F M	1882 1885 1886	M M M H L	3 55 2 88 2 70 5 76 8 60		M	1861 1862 1863 1864	L M M M	6 06 7 74 7 74 6 75 9 66
Germany,	F	1889	M M	2 46 2 86		M	1865	H	12 00 10 38
Great Britain,	F	1883	M	1 67 6 08		M	1866	H	18 50 10 88
	F		M L H	4 88 2 19 4 87		M	1867	L H L	7 50 13 50 10 80
	-		M L	8 41		M	1868	Ĥ	18 50 11 76
	М	1886	H	1 96 7 62 5 16		M	1869	H	13 50 11 52
			ml L	8 90		M	1870	H	18 80 11 52
	F		H L	4 50 1 74		M	1871 1872	M	10 80 10 80
Holland, Ireland,	Ä	1882 1877	M	2 40		M	1873 1874	M	11 52 18 50
	F M F	1883	M	1 32 2 16			1014	mh M	12 00 9 00
	F	1886	H	8 64			1875	L	5 52
	_		M L	1 02		М		H	15 00 11 28
Italy,	F M	1890 1882	M M	2 57 1 75		M	1876 1877	M.	9 18 10 14
	M	1884 1886	M	1 70 1 74		MI	1878 1879	M	9 66 9 18
Russia, Seotland,	F	1882 1866	M. M.	1 15 4 80		M	1880 1886	M H	8 76 9 00
	F	1877	M	2 28 5 76		M	1887	L H	7 80 10 75
	F	1878	M	2 88 2 67		F		L H	8 81 6 00
	M	1880	M	1 80 2 16	Delaware,	M	1860	L	4 81 7 92
	P	1888 1886	M	2 67 6 88		M	1867 1868	M	12 60 16 52
	M	1886	Ħ	4 82 1 58		M	1869 1870	M	15 62 15 52
	F		Ħ	3 64 2 42		M	1871 1872	M	15 52 15 52
Switzerland,	F	1886	Ĺ	1 32		M	1873	lwr I	15 52 14 04
Dressers (Cor-	F	1000	_	2 00		Ä	1875 1876	M	14 04 12 60
ton, Woollen, and Other Tex- tiles).						KKKKKKKKK	1877 1878 1879 1880	K K K K K	12 60 12 60 12 60 11 84 12 70
United States.		1000				M	1886	M	13 98
California,	M	1886 1888	H M	16 50 15 00	Georgia,	M	1876 1877	M	9 00
	_		M L	10 50 7 50		M	1878 1879	M	9 00
Connecticut,	M	1845	M	9 00 7 88	Indiana,	M	1880 1866	M	9 00 10 50
	M	1850 1854	M	7 59 7 50		M	1867 1868	M M	10 50 10 50
	M	1855 1856	M	8 28 7 50		M M M	1869 1870	M	12 00 12 00
	M	1857 1858	M	7 68 7 68		M	1875 1876	M	12 00 12 00
	¥	1859	M	7 68		M	1877	M	12 00

OCCUPATIONS, STATES, AND ('OUN- TRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Dressers (Corton, Woollen, and Other Textiles) — Con.					Dressers (Cotton, Woollen, and Other Textiles) — Con.				
United States - Con.					United States - Con.	1	1		•
Indiana,	M	1878	M	\$12 00	Massachusetts, .	М	1838	L	\$8 00
	M	1879 1880	M	12 00 12 00		F		H	5 95 4 35
	M	1886	H	10 50 9 00		F	1840 1843	M	4 02 7 74
			L	7 98		F		M	8 00
Maine,	M	1856 1857	M	5 58 5 70		M	1848 1850	H	7 02 9 75
	M	1858 1859	M	5 70 4 98				M L M	7 50 6 18
	M	1860	M	6 00		F		M	4 00
	M	1861 1862	M M M	6 00 4 98		M M	1851 1852	M	9 78
	M	1863 1864	M	4 98 5 28		M	1858 1854	M	9 5
	M	1865	M	6 90		M	1855	H	10 3
	1	1866	H	12 90 6 90		1	1	M L	9 0
	M	1867	H	14 40 10 02		M	1856 1857	H	9 9
	M	1868	L M	10 44 10 02		M	1858	L	9 0
	M	1869 1870	M	9 30		M	1859	H	10 4
	M	1871 1872	M	10 32 11 52		F		L	9 0
	M	1878	M	12 00		M	1860	H	11 0
	M	1874 1875	M	10 44		F	1	L M	1 4 5
	M	1876 1877	M	9 60 7 62		M	1861	H	11 0
	M	1878	M	10 02		M	1862	H	11 7
	M	1880	M	9 54		м			10 5
	M	1886	H	9 60 5 46		M	1864	H	10 9
Manufact	F	1888		6 00		М	1868	H	1 12 9
Maryland, .	· M M	1869	I M	10 50	}	м	1866	H	16 8
	M	1871		10 50 10 50				L	13 6
	M	1872	M	10 50 10 50		М	1867	H	10.0
	M	1874	M	10 50		1	.	M L	11 6
	M	1875 1876		9 42 8 40	1	M	1866	H	1 12 9
	l M	1877	M	8 40 8 40		м	1869	L	11 5 17 4
	M	1878 1879) M	7 50		_	100	M	160
	M	1885	M	8 40		М	1870	H	11 5
	F	1000	M	6 00		F		L	12 0
	F		M	4 80		M	187	H	23 3
Massachusetts,	. M	1836	H mb	7 50 6 00		1		M m)	17 8
	1		M	4 50		1,4	1879	L	1 12 (
	F		L H	3 00 7 20		M	191	M	13 (
			M L	5 28 3 11		м	187	L	12 (
	М	1837	H	7 50		-	•••	M	16 0
	1		mh M	4 98		1		ml L	13
	F		L	8 00		M	1874	H	17
	-		L	4 64		.	,	L	12 (
	М	1838	H	7 50 4 98		M	187	b H L	14

	O 162	DEL	* ***		WAGES - COLU	uucc	4.		
OCCUPATIONS, STATES, AND COUNTRIES.	8ex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Dressers (Corton, Woollen, AND OTHER TEXTILES) — Con.					Dressers (Cotton, Woollen, And Other Textiles) — Con.				
United States - Con.		İ			United States - Con.				}
Massachusetts, .	M	1876	H	\$15 96	New Hampshire, .	M	1850	H	\$7 50
	м	1877	H	10 44 18 12		l		M L	4 98
	1		l MX	11 54 10 20		M	1851	H	3 96 7 50 4 98
	M	1878	L	18 44		M	1852	H	7 50
	1		L	11 54 10 20		M	1853	L	4 98 7 50
	M	1879	H	12 96		1	1	L	4 98
	1		M L	11 54 10 20		M	1854	H	7 50 4 98
	M	1880	H	18 08		M	1855	H	7 50
	1		mh Ma	11 54 10 20		F	İ	L M	4 62 3 48
	M	1883	H	7 02 14 88		M	1856	H L	8 00 4 98
	-	1000	mh	12 00		M	1857	H	8 00
	1		mì	8 10		M	1858	H	4 98 8 00
	F	1	L	4 50 9 60		м	1	L	4 98 8 00
	*	1	mh	7 44		M	1859	H	4 98
	1	1	M ml	6 18 5 10		M	1860	L H	8 00
	١.,		L	8 60		"	1000	mh	9 64 8 00
	M	1885	H mh	20 00 15 84				M L	4 98 3 86
	1		M	12 00		F		M	5 25
	1		ml L	8 03 4 00		M	1861	H	8 00 4 98
	F		H	8 10 6 00		M	1862	L	8 00 8 00
		1	mol	4 67		1	1	L	4 96
	M	1886	H	8 18 12 00	il:	M	1863	H	8 00 4 98
			H	9 90 7 50		M	1864	H	8 50 6 00
•	F		H	9 00	H			L	3 18
	1	1	M L	5 40 8 60		F	1865	H	3 24 10 00
	M	1891	H	18 00		-	1000	M	6 00
	1	1	mh	14 08 12 00	il .	M	1866	L	8 48 12 00
	1		ml L	9 00 6 10	1			L	9 60
	F	1	H	12 00	1	M	1867	H	18 00
			mh M	9 51 7 50				M L	6 00
			ml	6 18 3 15		M	1868		12 00 8 70
Missouri,	. M	1870	L M	18 00	1			L	6 00
	M	1871 1872	M	18 00 17 00	N .	F	1869	M H	6 48 12 00
	M	1873	M	16 00			1000	M	8 70
	M	1874 1875	M	15 00 14 50		M	1870	H	1 12 00
	M	1876 1877	M	14 50 14 00		_		M	9 00
	M	1878	Ñ	18 00		M		M	8 52
	M	1879	M	12 50 12 00		M		M	8 52 7 50
New Hampshire,	X	1880 1890 1885	M	13 50		M	1873	M	8 52
MAM DEM PROBLES,	🗗	1837	N. N. N. N. N. N. N. N. N. N. N. N. N. N	3 90 4 14	1	M	1874 1875	H	8 52 11 34
	M M M M M M M M M M M M	1839 1842	M	4 20 8 60		м		L	8 52 8 52
	¥	1845	l Ma	4 80		F		M	7 98
	1	1847	M	4 02		M	1877	M	8 52
	-					<u> </u>	_=	$\dot{=}$	$\dot{=}$

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OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Dressers (Corton, Woollen, AND OTHER TEXTILES) — Con.					Dressers (Corton, Woollen, And Other Textiles) — Con.			İ	
United States - Con.		ĺ			United States - Con.	l	l		
New Hampshire, .	M	1878	M	\$8 52	New York,	M	1888	ml	\$4 50
<u>. </u>	M	1879 1880	M	7 80 10 50	Donnaulmania	м	1873	H	3 30 14 70
	M.	1990	L	9 00	Pennsylvania,	, ma	1013	Ĺ	8 00
	M	1886	H	10 50 5 76		F		M	6 96
	F		L M	5 58		M	1874 1876	M	9 00 15 00
New Jersey,	M	1892	M	10 75		<u> </u>	10.0	M	10 50
•	M	1883	M M M	18 00 4 00		F	1	L M	6 00
	M	1884	H	16 00		M	1877	Ĥ	12 42
			M	8 00		1	1878	L M	10 02
	F	1	H	5 00 16 00		M	1879	H	7 56 12 00
	-	Į.	M	6 00				M	9 60
	1		ml L	5 00 8 00		M	1886	H	4 50 12 00
	М	1885	Ħ	10 50				L	4 02
	F	1	L M	7 50 5 00		M	1888	H	13 00 10 80
	M	1886	M	9 24		l	l	L	8 58
	M	1888	M	11 76	Rhode Island,	M	1885	M	9 00
New York,	M	1850 1851	M	9 00		M	1840 1845	M	900
	M	1852	M	9 00		M	1850	M	8 40
	M	1863 1854	M	9 00		M	1855 1860	M	8 40 9 00
	M	1855	M	9 72		M	1865	M	13 50
	M	1856	M	9 72		M	1870	M€	15 00
	M	1857 1858	M	9 72 9 72		M	1875 1880	M	11 40 13 02
	M	1859	M	10 50	l	M	1888	M	10 50
	M	1860 1861	M	12 00 12 00	Vermont, Virginia,	M	1886 1886	M	7 88 4 50
	M	1862	M	12 00	lt - '		1	L	8 00
	M	1868 1864	M	12 00 13 50	Wisconsin,	M	1875 1876	M	13 50 18 50
	M	1865	M	15 00		M	1877	M	13 50
	W	1866	M	15 00		M	1878 1879	M	18 50 13 50
	M	1867 1868	M	16 50 16 50		M	1880	M	13 50
	M	1869	M	16 50		M	1888	Ħ	13 38 10 50
	M	1870	H	16 50 18 50	Foreign Countries.	1	l	L	10 50
	M	1871	H	20 58	Alsace-Lorraine, .	M	1885	Ħ	5 83 8 30
			M L	16 50 13 50	Bavaria	M	1882	L M	3 58
	M	1872	H	19 92	Belgium,	M	1882	M	4 00
	M	1873	L M	18 50 9 78	Canada,	M	1882 1832	M	4 50 7 20
	M	1874	M	10 44		M	1839	H	4 80
	M	1875 1876	M	13 56 12 54	1	M	1849	H	2 40 5 28
	M	1877	M	11 46		1	1	L	2 40
	M	1878	M	12 90 9 60		M	1850 1857	H	7 66 7 20
	M	1879 1880	M	10 98				L	4 80
	M	1884	M	12 00		M	1858	H	5 40 2 88
	M	1885 1886	M	12 00 13 50		M	1859	H	2 88 5 28
	_		mh	10 80		_		L	2 88
			M ml	9 72 7 50		M	1860	H mh	9 06 7 68
	1.	1	L	6 00		1	1	M	5 28
	M	1887 1888	H	10 50 10 98		M	1861	L M	2 88 5 76
	"	1000	mh	9 00		M	1863	H	7 20
	1		M	6 60				L	4 32
	<u>' </u>	<u> </u>	<u> </u>	t	II	<u>'</u>	<u> </u>	<u>'</u>	<u>' </u>

OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Dressers (Cotton, Woollen, and Other Tex-					Dressers (LEATH- ER).	<u> </u> 	L		
TILEA) — Con.					United States.			l	
Foreign Countries — Con.					Connecticut,	M	1875	H M L	\$21 00 18 00 12 00
England,	F	1866	H L M M	\$7 20 6 00 2 40 9 36	Massachusetts, .	M	1885	H mh M ml	18 00 16 00 14 00 12 00
	M M M	1870 1877 1880	M	10 44 9 04 7 20		M	1891	L H	10 00 11 00
	M	1882	L H	3 96 12 50	New York,	M	1886	L H mb	9 00 18 50 12 00
	м	1883	H mh M	9 60 10 95 8 64 6 72		M	1888	M L H mb	10 50 8 25 18 00 18 50
	м	1885	ml L H	8 84 1 44 12 50 10 95				M ml L	12 00 10 00 8 25 30 00
			M ml L	7 80 5 82 4 87	Pennsylvania,	M	1871	H M L	20 00 12 50
	M	1886	H mh	10 32 8 54	Foreign Countries.				4.00
England and Wales, France.	M	1886 1882	M L M H	8 54 7 32 4 56 5 56 4 62	England,	MMM	1889 1849 1859 1860 1878	M M M	4 82 4 82 4 82 5 52 10 80
Germany,	M	1885 1882	L M M	2 88 2 88 4 80	France,	M	1878	H	6 00 3 60
	FMM	1885 1889	M	2 80 8 48	Ireland,	М	1874 1866	IL M M	2 10 4 80 8 16
Great Britain,	M	1880 1883	M	7 26 14 60	Dressmakers.				
	ł		mh M	12 17 9 78	United States.	1			
Ireland,	M	1866	mi L M M	6 81 8 41 7 20 2 16	California,	F	1884	H mh M ml	15 60 12 00 9 00 6 00
Russia,	M M M	1874 1877 1883 1885	M M M	4 82 7 68 8 40 6 24		F	1885	L H mh	8 00 12 00 9 00 7 50
Scotland,	X	1866	H	7 92 6 00				ml L	6 00 8 00
	P	1874	L M H	4 80 1 92 4 50		F	1888	mh M	15 00 12 00 9 00
	м	1875	Ľ H	8 50 4 50				ml L	6 00 8 00
	M	1876	L H L	8 50 4 50 8 50	Colorado,	P	1888	mh M	16 00 14 00 10 00
	M	1877	H	4 50 8 50				ml L	7 00 4 00
	м	1878 1880	H L H	4 50 8 50 7 20	Indiana,	F	1879	mh M	10 50 9 00 6 72
	M	1882	L M	6 00 6 50				ml L	5 10 8 00
	M	1883 1885 1886	M M H	6 00 6 44 11 28		F	1881	M mb M	12 00 9 23 7 50
	1	1990	M ml	8 16 6 00	•	_	1005	ml L M	5 00 8 00
Switzerland,	M	1882	L	3 88 4 96	Iowa,	F	1887 1889	M	6 42 9 00

OCCUPATIONS,				Washla	Occupations,				Washin
STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Dressmakers — Con. United States - Con.					Dressmakers — Con. Foreign Countries				
Kansas, Maine,	F F	1889 1887 1888	M M H L	\$3 00 6 00 7 50 6 00	— Con. Australia, England,	F	1889 1886	M H L	\$5 00 4 38 1 46
Maryland, Massachusetts, .	F	1885 1883	M H L	7 50 10 38 6 90	France,	F	1875 1878	H L H	4 80 1 80 2 00
	F	1885	H mh	13 50 10 00		F	1885	L H	1 50 2 88
	F	1891	M ml L H M	8 00 5 00 3 00 11 64 9 12	New Zealand, Drillers (METALS). United States.	F	1889	L M	1 74 5 82
Michigan,	F	1888	ml L H mh M	7 56 6 00 12 00 9 90 7 50 5 10	Connecticut, Delaware,	M M M	1887 1886 1886 1885	M M H M	8 59 7 02 12 00 15 00 10 00
	F	1884	L H mh M	8 00 18 00 12 00 10 00 6 00		M M	1886 1891	mi L M H mh	8 10 4 50 10 50 30 00 24 00
Missouri,	F	1886 1882	L M L M	8 00 6 25 5 00 3 00 9 00	Michigan,	M M	1886 1889	M ml L M H	15 00 12 00 7 00 12 00 8 77
New Jersey,	F	1887	H L M	11 40 5 40 6 00		M	1891	M L H	6 92 5 08 12 00
	F	1883 1884	M H mh M	5 00 12 00 9 00 8 00 5 00	Missouri	M	1886	mh M ml L M	10 50 8 00 6 75 4 50 7 50
	F	1885	L H M	8 00 17 00 10 00	New Jersey,	M	1887	H L M	9 00 7 50 9 00
	F	1886	L M M	4 00 7 50		M	1885	H L M	15 00 7 50 10 50
New York,	F	1888 1885	H mh M ml	7 50 18 00 12 00 9 00 6 00	New York,	M M M M	1868 1869 1870 1871 1872	M	10 50 10 50 10 50 10 50
	F	1888 1889	L M H mb	3 00 10 00 20 00 17 50 13 00		M M M M	1873 1874 1875 1876 1877	M M M M	10 50 10 50 10 80 10 50 10 50
Ohio,	F	1887	ml L H M ml	9 00 5 00 12 00 7 50 5 10		M M M	1878 1879 1880 1886	M M H L	10 50 10 50 10 50 13 26 10 80
Pennsylvania, Rhode Island,	F F	1884 1888 1889	L M M H	8 00 4 50 6 00 12 00	Ohio,	M	1888 1886	H M L M	30 00 16 98 10 00 7 80
			mh M ml	10 00 8 00 5 50	Pennsylvania,	M	1874 1876	H L H	10 50 8 25 10 80
Foreign Countries.			L	3 00		M	1880 1881	L M M	8 40 12 00 13 56
Australia,	F	1878	H L	4 80 3 60		M	1882 1883	M	18 56 15 84

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Drillers (METALS) — Con. United States - Con.					Drillers (Stone) — Con. United States-Con.				
Pennsylvania,	W	1886 1888	H L M	\$13 50 11 28 12 50	Maryland, Massachusetts, .	M	1885 1885	M H mh	\$9 00 15 00 12 50
West Virginia,	M	1886 1888	M	9 96 8 34				M ml L	10 50 9 00 7 50
Foreign Countries.	١				Michigan,	M	1891 1889	M	9 90 13 50
England,	M M M M	1839 1849 1859 1861 1866	M M H L	4 80 4 80 4 80 3 84 5 76 4 80	Missouri,	M	1889	M L H mh M	12 00 10 38 12 54 10 14 8 24 6 12
	M	1868 1871 1877	H M L M H M	7 92 6 72 4 08 5 04 12 24 6 72 5 04	New York, Ohio,	M M M M	1889 1870 1871 1872 1873	L M M M M	4 02 15 00 13 50 13 50 12 00 12 00
	M	1880	L H mh M L	2 64 7 20 5 94 4 68 2 10 12 00		MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	1874 1875 1876 1877 1878 1879	M M M M	12 00 12 00 10 50 10 50 9 00 10 02
	M	1885	mh M ml L H	9 84 6 72 5 52 4 82 7 00	Pennsylvania,	M M	1880 1888 1888	M H M L M	10 02 12 00 10 50 9 00 6 00 11 58
France, Germany, Great Britain,	M	1885 1885 1880	L M H L	5 46 6 95 8 50 7 26 5 80 4 29 7 79	Dryers (Cotton, Woollen, And Other Tex-				
	-	1000	M M M ml L	6 57 5 35 4 14 2 92	United States. Connecticut,	M M M	1864 1865 1866	M	6 96 7 14 8 04
Ireland, Sectiond,	M M M	1877 1883 1866	M H L M	4 80 3 88 7 20 8 08 4 82		M M M M	1867 1868 1869 1870 1871	M M M	8 52 8 76 9 42 9 66 8 76
	M	1874 1877 1880	H L H	4 56 7 68 4 80 7 20 6 00		M M M M M M	1872 1873 1874 1875 1876	M M M M	9 42 9 42 8 52 8 28 7 38
	M	1883	L H mh M	4 82 10 08 8 16 6 24 4 80		KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	1877 1878 1879 1880 1887	M M M M	6 90 6 90 7 38 7 80 8 67
	M	1885	M T	8 24 5 54	Maine, Massachusetts, .	M	1886 1883	M H mh M	6 60 12 00 9 00 7 86
Drillers (STONE). United States.						м	1885	ml L H	5 76 3 60 9 00
Colorado,	M M	1888 1879 1880 1889	M M H M L	13 98 6 90 7 50 15 00 13 50 12 00		M	1886 1891	mh M L M H mh	7 50 6 50 4 00 6 00 10 00 8 10

Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	8ex	Years	Grade	Weekly Wages
Dryers (COTTON, WOOLLEN, AND OTHER TEXTILES)—Con. United States-Con. Massachusetts,	M	1891	M ml	\$6 60 4 20 3 00	DIYERS (COTTON, WOOLLEN, AND OTHER TEXTILES)—CON. Foreign Countries—Con. Scotland,	м	1877	н	\$5 76 4 80 2 88
New Hampshire, . New Jersey,	MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	1886 1871 1872 1873 1874 1875 1876 1877 1878	M M M M M	6 90 9 00 9 00 9 00 8 75 8 10 8 76 8 10 8 10	Dubbers (8 H I P - BUILDING). United States.	M F	1886	L H L H W L	2 86 4 56 3 32 8 50 2 68 1 94
	M	1880 1882 1883	M H M L	7 32 9 00 7 20 8 50 9 00	Connecticut, Delaware,	M M M	1887 1888 1889 1887	M M M M	24 00 24 00 24 00 13 50
	MFM	1884	L M M	7 00 9 00 5 00	Maine,	M	1888 1889 1886	M M H L	13 50 15 00 12 00 10 50
	_	1550	mh M ml	15 00 18 50 12 00 10 00		M M	1887 1888	H L H	18 50 12 00 16 50
	F	1886	L M H L	8 00 5 00 7 50 5 00		M	1889	M L H mh	15 00 13 50 19 50 16 50
New York,	B M	1886	H H H	6 00 4 50 7 50 6 00 3 90	Maryland,	M	1886 1887 1888	M M M M	15 00 13 72 16 50 16 50 16 50
Pennsylvania,	M	1888 1876	L H L M	10 38 9 00 4 50	Massachusetts, .	MMM	1889 1887 1888	M M M	16 50 13 50 15 00
Vermont,	F M	1886	M M	8 00 6 12	New Jersey,	M M	1889 1886 1887	M	16 50 18 00 18 00
Foreign Countries.				1 1		M	1888 1889	M	18 00 18 00
Belgium,	M F M	1888	M M M	3 30 3 30 3 96	New York, Ohio,	M	1889 1887 1889	M	16 50 30 00 30 00
England,	M M M	1850 1860 1870 1877	M M M	4 78 6 46 5 83 8 43	Dyers. United States.				
	M	1883 1885	H L M	6 74 3 66 3 71	Alabama,	M	1872 1878 1874	M M	4 50 4 50 4 50
Germany,	M	1886 1886	M H L	8 82 8 24 2 10		M M M	1875 1876 1877	M M M	4 50 4 50 4 50
Great Britain,	M M M M	1850 1860 1870 1877 1880	M M M M	4 78 6 47 5 84 8 43 5 81	California,	MMM	1878 1879 1880 1867 1868	M M M M	4 50 4 50 4 50 24 00 30 00
Ireland,	M F M	1883	L M L M	3 87 6 75 5 60 4 62 1 68		M M M M M	1869 1870 1871 1872 1878 1874	M M M M	30 00 30 00 30 00 24 00 18 00
	F	1886	H M L M	4 88 3 70 2 32 2 16		M M	1874 1875 1876 1877	M M	18 00 18 00 10 88 10 88

GRADED WEEKLY WAGES - Continued.

	O 162	DEL	* ** 1	EEKLY	WAGES — Conti	uuec	1.		
OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weckly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Dyers - Con.					Dyers — Con.				
United States - Con-	1				United States - Con.	1	1	f	
California,	M	1878 1879	M	\$10 88 10 38	Indiana,	M	1851	M M	\$ 7 50
	M	1880	M	10 38		M M M	1852 1853	M	7 50 7 50
	M	1884	H L	21 00 15 00		M	1854 1855	M	7 50 7 50
	M	1885	H	18 00		M	1858	M M M M	
			M L	10 38 7 50		M	1857 1858	Ä	7 50 7 50 9 00
	M	1886	H	85 00		M	1859	M	9 00
	м	1888	H	11 22 35 00		M	1860 1861	M M M	9 00
	-		M	24 00		M	1862	M	12 00
			ml L	15 00 7 50		M	1868	H	12 00 9 00
	F		H	9 00		М	1864	H	18 00
	M	1890	L M	7 00 22 50		м	1865	H	10 50 18 00
Connecticut,	M	1860	H	15 00				L	10 50
	1		L	6 72 4 00	Į	M	1866	H	18 00 10 50
	M	1866	M	18 00		M	1867	H	18 00
	M	1867 1868	M M M M I	18 00 18 00		м	1868	H	12 00 18 50
	M	1869 1870	M	18 00			1	L	12 00
	M	1871	M	18 00 18 00		M	1869	H	13 50 12 00
	M	1872	M	18 00		M	1870	H	13 50
	M	1878 1874	H	18 00 18 00		м	1871	H	12 00 18 50
	M	1875	L M	9 00 18 00	l	-		H	12 00
	M	1876	M	18 00		M	1872	L H	15 00
	M M M	1877 1878	M	15 00 15 00		ļ		M L	12 00
	M	1879	M	15 00		M	1878	H	15 00
	M	1880 1886	M	18 00 18 00		ĺ		M L	12 00 9 00
	-	1000	M	12 00		M	1874	Ħ	15 00
	1		ml L	9 00				H M L	12 00 7 50
	F		M	4 50		M	1875	H	15 00
	M	1887	H	10 88 8 18			ı	M L	12 00 7 50
Delaware,	M	1886	H	18 00		М	1876	н	12 00
illinois,	. м	1861	L	9 00 12 00		м	1877	L H	6 60 12 00
, .	M	1862	M	12 00				L	6 60
	M	1863 1864	M M M	12 00 15 00		М	1878	H	12 00 6 60
	M	1865	N.	18 00		M	1879	H	12 00
	M	1866 1867	M	18 00 18 00		м	1880	H	10 56 15 00
	X	1868 1869	M	21 00 18 00				M .	12 00
	I W	1870	M	18 00		M	1886	L H	7 52 15 00
	W.	1871	M	18 00				mh	12 00
	M	1872 1873	¥	18 00 18 00				M	10 02 7 98
	M	1874	Ä	18 00	Torre	1	1865	L M	6 00
	🛣	1875 1876	M M M M	18 00	Iowa,	M	1866	M	18 00 18 00
	X	1877 1878	M	18 00 15 00		M	1867 1868	M M M	18 00
	M M M M M M M M M M M M M M M M M M M	1879	X	16 00		M M M M M	1869	M	18 00
	W	1880 1884	M	16 50 16 50		M	1870 1871	M	15 00 15 00
	M	1886	M	16 50		M	1872	M	15 00
	M	1886	H	16 50 8 10	1	M	1873 1874	M M M M	15 00 15 00
7	M	1888	M	16 50	1	M	1875	M	15 00
Indiana,	M	1850	M	7 50	1	M	1876	M	15 00

OCCUPATIONS,					OCCUPATIONS,				l
STATES, AND COUNTRIES.	8ex	Years	Grade	Weekly Wages	STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Dyers — Con.					Dyers - Con.	[
United States - Con.		1			United States - Con.				ŀ
Iowa,	M	1877	Ã	\$15 00	Massachusetts, .	M	1853	M M	\$6 00
	M	1878 1879	M	15 00 15 00		M	1854 1855	M	6 72
	M	1880	M	15 00		M	1866	M	7 14 7 02
	M	1886 1887	M	9 00 12 00		M	1857 1858	H	6 12
Kentucky,	M	1864	M	21 00			i	L	4 92
	M	1865 1866	M	18 00 18 00		M	1859	H	6 00 4 92
	M	1867	M M M	18 00		M	1860	H	8 28
	M	1868 1869	M	18 00 16 50				M L	6 72 5 46
	M	1870	M	16 50		M	1861	H	8 28
	M	1871	M	16 50 16 50		м	1862	L H	5 46 7 20
	M	1872 1873	M	16 50 18 00			1002	l ii	5 46
•	IMC ∣	1874	M	18 00		M	1863	H	9 00 5 88
	M	1875 1876	M	16 50 16 50		м	1864	H	9 48
	M	1877	M	16 50				L	7 92
	M	1878 1879	M	16 50 18 00		M	1865	H	10 50 8 94
	M	1880	M	18 00		M	1866	H	10 50
	M	1886	H	9 24 6 60		м	1867	H	8 70 10 50
Maine,	M	1850	M	6 00		-		Ĺ	8 04
	M	1851	M	6 00 7 50		M	1868	H	10 50 7 98
	M	1852 1853	M			M	1869	Ħ	10 50
	M	1854	M	7 50 7 50			1070	L	8 04 10 50
	M	1855 1856	M	7 50 7 98		M	1870	H	6 96
	M	1857	M	7 98		M	1871	H	10 50
	M	1858 1859	M	7 98 7 98		м	1872	H	7 50 10 50
	M	1860	M	7 98				L	7 50
	M	1861 1862	M	7 98 9 00		M	1873	H	12 00 10 20
	M	1863	M	9 00				L	7 50
	M	1864 1865	M	10 50 11 22		M	1874	H	12 00 10 20
	M	1866	M	11 22		ł		L	7 20
	M	1867	M	11 10		M	1875	H	12 00 10 20
	M	1868 1869	M	11 10 10 50		l		L L	7 50
	M	1870	M	10 50		M	1876	H	11 16 9 00
	M	1871 1872	M	10 50 11 22		1	Ì	L	6 84
	M	1873	M	12 00		M	1877	H	10 50 8 40
	M	1874 1875	M	12 00 11 22	•	1		L	8 40 6 18
	M	1876	M	11 40		M	1878	H	10 20
	M	1877 1878	M	12 00 10 50				M L	8 40 6 30
	M	1879	M	10 50		M	1879	H	10 20
	M	1880 1886	H	12 00 12 00				M ml	8 70 7 50
	_	1000	mh	10 80		ļ		L	5 94
	l	1	M	7 80		M	1880	H	10 50 8 70
	M	1887	L M	5 40 7 50				ml	7 50
Maryland,	M	1885	M			1	1883	L H	80 00
Massachusetts	M	1886 1824	M	7 50 7 50 5 76		M	1003	mh	18 00
	M	1848	M	6 25				M	12 00
	M	1850	H L	7 00 6 00		[ml L	9 00
	M	1851	H	7 00		F		M	6 00
	м	1852	L H	6 00 6 00	1	M	1884 1885	M	12 00 46 19
	Ma	1002	L	4 80	1	,	1000	mh	30 00

GRADED WEEKLY WAGES - Continued.

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United States - Con. Massachusetts, . M 1885 M 1885 M 1886 M 1	STATES, AND COUN-	8ex	Ýears	Grade	Weekly Wages	STATES, AND COUN-	Sex	Years	Grade	
M 1886 H 1890 M 1876 M 9 00 M 1876 M 9 00 M 1876 M 9 00 M 1876 M 9 00 M 1877 M 9 00 M 1877 M 9 00 M 1877 M 9 00 M 1877 M 9 00 M 1877 M 9 00 M 1877 M 9 00 M 1877 M 9 00 M 1877 M 9 00 M 1877 M 9 00 M 1877 M 1800 M 1877 M 1800 M 1877 M 1800 M 1877 M 1800 M 1877 M 1800 M 1877 M 1800 M 1877 M 1800 M 1877 M 1800 M 1877 M 1800 M 1877 M 1800 M 1877 M 1878 M 1879 M 1879 M 1879 M 1879 M 1879 M 1879 M 1879 M 1879 M 1879 M 1879 M 1879 M 1879 M 1879 M 1870 M 1877 M 1870	United States - Con.					United States - Con.				
M 1880	Massachusetts, .	M	1885		824 00 18 50	New Hampshire, .	M	1873	M	
March Marc		١.,		L	6 00		M	1875	M	9 00
March Marc		M.	1880	mh	15 00					36 00
F		l	1		9 60 7 60		v	1878	L	
Michigan,		_		L			1		L	8 10
Michigan,			1891		80 00		_	1	L	7 50
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Michigan, . M 1867 M 7 50 New Jersey, . M 1871 M 9 50 M 1870 M 7 50 M 1871 M 7 50 M 1871 M 7 50 M 1872 M 9 50 M 1873 M 9 50 M 1873 M 9 50 M 1875 M 6 00 M 1875 M 6 00 M 1877 H 34 98 M 1876 M 6 00 M 1877 H 34 98 M 1876 M 6 00 M 1877 H 34 98 M 1878 H 20 10 M 1879 M 1860 M 1876 M 1870 M		l	1	ml	12 00		М	1886	H	9 00
M 1870 M 7 50 M 1874 M 9 00 M 1871 M 7 50 M 1875 M 8 525 M 1872 M 6 00 M 1877 H 34 98 M 1876 M 6 00 M 1877 H 34 98 M 1877 M 6 00 M 1877 H 34 98 M 1877 M 6 00 M 1878 H 34 98 M 1878 M 6 00 M 1879 H 34 98 M 1880 M 6 00 M 1881 H 30 00 M 1884 H 12 00 M 1881 H 30 00 M 1877 M 10 50 M 1882 H 20 00 M 1878 M 10 50 M 1882 H 30 00 M 1877 M 10 50 M 1883 H 30 00 M 1878 M 10 50 M 1883 H 30 00 M 1878 M 10 50 M 1883 H 30 00 M 1879 M 12 00 M 1883 H 30 00 M 1883 M 15 00 M 1883 H 30 00 M 1884 M 12 00 M 1885 H 30 00 M 1885 M 10 50 M 1885 H 30 00 M 1885 M 10 50 M 1885 H 30 00 M 1885 M 10 50 M 1885 H 30 00 M 1885 M 15 00 M 1885 H 30 00 M 1885 M 15 00 M 1885 H 30 00 M 1885 M 15 00 M 1885 M 15 00 M 1885 M 15 00 M 1885 M 10 00 M 1885 M 15 00 M 1885 M 10 00 M 1885 M 15 00 M 1885 M 10 00 M 1885 M 15 00 M 1885 M 10 00 M 1885 M 15 00 M 1885 M 10 00 M 1885 M 5 25 M 1885 M 10 00 M 1885 M 5 25 M 1885 M 10 00 M 1885 M 6 00 M 1885 M 10 00 M 1885 M 6 00 M 1885 M 10 00 M 1885 M 6 00 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M	Michigan,	M	1867	M	7 50	New Jersey,			Mi	9 50
M 1870 M 7 50 M 1874 M 9 00 M 1871 M 7 50 M 1875 M 8 525 M 1872 M 6 00 M 1877 H 34 98 M 1876 M 6 00 M 1877 H 34 98 M 1877 M 6 00 M 1877 H 34 98 M 1877 M 6 00 M 1878 H 34 98 M 1878 M 6 00 M 1879 H 34 98 M 1880 M 6 00 M 1881 H 30 00 M 1884 H 12 00 M 1881 H 30 00 M 1877 M 10 50 M 1882 H 20 00 M 1878 M 10 50 M 1882 H 30 00 M 1877 M 10 50 M 1883 H 30 00 M 1878 M 10 50 M 1883 H 30 00 M 1878 M 10 50 M 1883 H 30 00 M 1879 M 12 00 M 1883 H 30 00 M 1883 M 15 00 M 1883 H 30 00 M 1884 M 12 00 M 1885 H 30 00 M 1885 M 10 50 M 1885 H 30 00 M 1885 M 10 50 M 1885 H 30 00 M 1885 M 10 50 M 1885 H 30 00 M 1885 M 15 00 M 1885 H 30 00 M 1885 M 15 00 M 1885 H 30 00 M 1885 M 15 00 M 1885 M 15 00 M 1885 M 15 00 M 1885 M 10 00 M 1885 M 15 00 M 1885 M 10 00 M 1885 M 15 00 M 1885 M 10 00 M 1885 M 15 00 M 1885 M 10 00 M 1885 M 15 00 M 1885 M 10 00 M 1885 M 5 25 M 1885 M 10 00 M 1885 M 5 25 M 1885 M 10 00 M 1885 M 6 00 M 1885 M 10 00 M 1885 M 6 00 M 1885 M 10 00 M 1885 M 6 00 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M 1886 M 7 80 M 1885 M 10 00 M		M M		M	7 50		M	1872	M	
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M 1875 M 6 00 M 1878 H 34 98 M 1877 M 6 00 M 1879 H 34 98 M 1878 M 6 00 M 1880 H 34 98 M 1880 M 6 00 M 1881 H 34 98 M 1880 M 6 00 M 1881 H 30 00 M 1880 M 12 00 M 1881 H 30 00 M 1880 M 12 00 M 1881 H 30 00 M 1870 M 12 00 M 1882 H 20 00 M 1875 M 12 00 M 1882 H 20 00 M 1877 M 10 50 M 1888 H 20 00 M 1877 M 10 50 M 1888 H 20 00 M 1878 M 10 50 M 1888 H 20 00 M 1879 M 10 50 M 1888 H 20 00 M 1880 M 10 50 M 1884 H 20 00 M 1880 M 10 50 M 1884 H 20 00 M 1880 M 10 50 M 1884 H 20 00 M 1880 M 10 50 M 1884 H 20 00 M 1880 M 10 50 M 1884 H 20 00 M 1880 M 10 50 M 1884 H 20 00 M 1880 M 10 50 M 1884 H 20 00 M 1880 M 5 25 M 1884 H 20 00 M 1880 M 5 25 M 1885 H 10 00 M 1881 M 5 25 M 1885 M 5 25 M 1885 M 5 25 M 1885 M 10 00 M 1885 M 5 25 M 1885 M 10 00 M 1885 M 5 25 M 1885 H 20 00 M 1885 M 6 00 M 1885 M 5 00 M 1885 M 6 00 M 1885 M 6 00 M 1885 M 6 00 M 1885 M 6 00 M 1885 M 6 00 M 1885 M 6 00 M 1885 M 6 00 M 1885 M 6 00 M 1885 M 6 00 M 1885 M 6 00 M 1886 M 7 80 M 1886 M 7 80 M 1886 M 7 80 M 1886 M 9 00 M 1887 M 9 00 M 1886 M 120 00 M 1886 M 7 80 M 1886 M 120 00 M 1887 M 9 00 M 1888 M 120 00 M 1887 M 9 00 M 1888 M 120 00 M 1887 M 9 00 M 1888 M 120 00 M 1888 M 120 00 M 1888 M 120 00 M 1889 M 7 80 M 1889 M 120 00 M 1889 M 7 80 M 1889 M 120 00 M 1889 M 7 80 M 1889 M 120 00 M 18		M	1874	M	6 00				L	8 10
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M 1880 M 15 00 M 1882 M 15 00 M 1883 M 15 00 M 1884 M 12 00 M 1884 M 20 00 M 1884 M 20 00 M 1871 M 15 00 M 1885 M 15 00 M 1885 M 15 00 M 1885 M 15 00 M 1870 M 15 00 M 1870 M 1870 M 1885 M 15 00 M 1885 M 10 0 M 1885		M		M	10 50		м	1883		80 00
M 1886 M 7 50 M 1884 H 20 00 mh 17 00 M 1815 M 3 90 M 1850 M 5 25 M 1850 M 5 25 M 1855 M 1850 M 5 25 M 1852 M 5 25 M 1853 M 5 25 M 1854 M 5 25 M 1855 M 5 25 M 1855 M 5 25 M 1855 M 5 25 M 1855 M 5 25 M 1855 M 5 25 M 1855 M 5 25 M 1855 M 5 25 M 1855 M 5 25 M 1855 M 5 25 M 1855 M 5 25 M 1855 M 5 25 M 1855 M 5 25 M 1855 M 5 25 M 1856 M 5 25 M 1857 M 6 00 M 1857 M 6 00 M 1857 M 6 00 M 1859 M 6 00 M 1859 M 6 00 M 1859 M 6 00 M 1859 M 6 00 M 1852 M 6 00 M 1852 M 6 00 M 1852 M 6 00 M 1852 M 6 00 M 1852 M 6 00 M 1852 M 6 00 M 1852 M 6 00 M 1852 M 6 00 M 1852 M 6 00 M 1852 M 6 00 M 1852 M 6 00 M 1852 M 6 00 M 1852 M 6 00 M 1854 M 6 00 M 1855 M 6 00 M 1855 M 6 00 M 1855 M 6 00 M 1855 M 6 00 M 1855 M 6 00 M 1855 M 6 00 M 1855 M 6 00 M 1855 M 6 00 M 1855 M 6 00 M 1855 M 6 00 M 1855 M 6 00 M 1855 M 6 00 M 1855 M 6 00 M 1855 M 6 00 M 1855 M 9 00 M 1855 M 12 00 M 1855 M 12 00 M 1855 M 12 00 M 1855 M 12 00 M 1855 M 12 00 M 1855 M 12 00 M 12 00 M 12 00 M 12 00 M 12 00 M 12 00 M 12 00 M 1		I M	1880	M	10 50					
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M		M	1857	M	6 00		1		mal	11 00
M		W		M	6 00		F			5 70
M 1862 M 6 00 M 1863 M 6 00 M 1864 M 6 00 M 1865 M 7 80 M 1866 M 7 80 M 1866 M 7 80 M 1867 M 9 00 M 1868 M 9 00 M 1868 M 9 00 M 1865 M 9 00 M 1865 M 9 00 M 1865 M 9 00 M 1865 M 9 00 M 1865 M 1800		M	1860	M	6 00		M	1888		20 00
M 1864 M 6 00 M 1865 M 9 00 M 1865 M 9 00 M 1865 M 9 00 M 1865 M 9 00 M 1865 M 9 00 M 1867 M 9 00 M 1867 M 9 00 M 1867 M 9 00 M 1865 M 9 00 M 1871 M 9 00 M 1865 M 12 00 M 1872 M 9 00 M 1867 M 12 00 M 1872 M 9 00 M 1867 M 12 00		X	1862	Ä	1 6 00				M	15 00
M		M	1864	M	6 00		1		L	7 50
M 1867 M 7 90 M 1862 M 9 00 M 1868 M 9 00 M 1863 M 9 00 M 1863 M 9 00 M 1864 M 9 00 M 1867 M 1869 M 1871 M 9 00 M 1865 M 12 00 M 1871 M 9 00 M 1867 M 12 00 M 1872 M 9 00 M 1867 M 12 00 M 1867 M 12 00 M 1867 M 12 00 M 1867 M 12 00 M 1867 M 12 00 M 1867 M 12 00 M 1867 M 12 00 M 1867 M 12 00 M 1867 M 12 00 M 1867 M 12 00 M 1867 M 12 00 M 1867 M 12 00 M 1867 M 12 00 M 1868 M 12 00 M 1868 M 12 00 M 1867 M 12 00 M 1868 M 1868		M		l Mr		New York,	M		M	9 00
M 1869 M 7 80 M 1864 M 9 00 M 1865 M 12 00 M 1871 M 9 00 M 1867 M 12 00 M 1872 M 9 00 M 1867 M 12 00		Ä	1867	M	7 80		M	1862	M	9 00
M 1870 M 9 00 M 1865 M 12 00 M 1871 M 9 00 M 1867 M 12 00 M 1872 M 9 00 M 1867 M 12 00		M	1869	l Mr	7 80		M	1864	M	9 00
M 1872 M 9 00 M 1867 M 12 00		M	1870 1871	M	9 00		M	1866	M	12 00
		M	1872	M			M		M	12 00

OCCUPATIONS, STATES, AND COUNTRIES. Sex Years Grade Weekly Wages STATES, AND COUNTRIES. OCCUPATIONS, STATES, AND COUNTRIES. Years Dyers — Con. United States - Con. United States - Con.	Grade	Weekly Wages
United States - Con. United States - Con.		
United States - Con. United States - Con.		
		ļ
New York, M 1868 M \$12 00 Ohio, M 1881	mh	\$12 00
M 1869 M 12 00 M 1870 M 15 00	M ml	9 60
M 1874 M 12 00	L	6 00
M 1875 M 12 00 M 1882 M 1876 M 12 00 M 1887	M H	13 32 21 00
M 1875 M 12 00 M 1882 M 1876 M 12 00 M 1887 M 1877 M 12 00 M 1887 M 1878 M 12 00 M 1878 M 12 00	mh	16 14 12 00
M 1879 M 12 00	M ml	9 00
M 1879 M 12 00 M 1880 M 24 00 M 1883 M 24 00 Oregon, M 1875	L M	6 00 18 00
M 1884 H 24 00 M 1876	M	18 00
M 1885 H 25 50 M 1877 M 1878	M	18 00 18 00
M 1886 H 25 50 M 1889	M. M.	18 00
' M. 13 00 Pennsylvania, M. 1864	M	9 96
L 6 72 M 1865 M 1866 M 1866	M	9 96 18 00
M 1887 M 25 50	L	9 96 18 00
M 1888 H 36 00 M 1867	H L	9 96
M 21 00 M 1868	H	18 00 9 96
1L 600 Mr 1869	H	24 96
F H 6 00	M L	15 00 9 96
North Carolina, . M 1887 H 14 22 M 1870	H	24 96
mh 10 50 M 9 00	M L	15 00 9 96
ml 7 50 M 1871	H	24 96 18 00
M 1890 M 7 50	ml	18 50
Ohio, M 1851 M 7 50 M 1872	L H	9 96 24 96
Mr 1853 Mr 7 50	M	18 00
M 1855 M 7 50	ml L	18 50 9 96
M 1856 M 7 50 M 1873 M 1873	H	24 96 18 00
M. 1858 M. 750	ml	15 00
M 1859 M 7 50 M 1860 M 7 50 M 1874	L H	9 96 24 96
M 1861 M 7 50	mh	21 00
M 1862 M 12 00	M ml	13 50
I M (1864 M () 12 00 1 1	H	9 96 24 96
Mr 1866 Mr 12 00	mh	21 00
M 1867 M 12 00	M ml	15 00 18 50
M 1869 M 12 00	L H	9 99
M 1871 M 12 00	mh	21 00
M 1872 M 12 00 12 00 12 00	M ml	15 00 12 00
M 1874 H 10 80	L	6 78
M 1875 H 9 00 M 1877	H mh	24 96 21 96
M 1876 H 10 50	M ml	15 00 12 00
L 9 00	L	9 00
M 1877 H 10 50 M 1878	H mb	24 96 19 98
M 1878 H 10 50	M	15 00
M 1879 H 12 00	ml L	10 50 6 00
M 1880 H 12 00 M 1879	H	24 00 15 00
L 900	ml	10 00
M 1881 H 13 50	L	6 00

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OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	8ex	Years	Grade	Weekly Wages
Dyers — Con.	ĺ			1 1	Dyers - Con.				
United States - Con.		ł			United States - Con.	1			
Penneylvania,	M	1880	H	\$24 96	Vermont,	M	1869	M	\$7 20
		l	M	15 00 12 00		M	1870 1871	M	6 75 9 48
	١		L	9 00		l M	1872	M	9 84
	M	1881 1885	H	12 00 24 00	ì	M	1878 1874	M	10 32 9 60
	м	1886	L	9 00		M	1875 1876	M	10 68 10 62
		1000	H	9 00	Ì	M	1877	¥	8 22
	F		L H	7 50 6 00	İ	₩	1878 1879	M M	8 76 8 04
	i		L	4 50		M	1880	M	7 80
	M	1888	H mh	18 80 15 00	Virginia,	M	1886 1870	M	6 12 10 50
	1		M ml	12 00 9 00		W	1871 1872	M	10 50 10 50
			L	6 00			1873	M	10 50
	M	1890	H T.	80 00 12 00		₩ M	1874 1875	M	10 50 10 50
Rhode Island,	W	1866	L M M	15 00		M	1876	M M M	10 50
	M	1867 1868	M	15 00 15 00		M	1877 1878	M	10 50 10 50
	M	1869 1870	H	15 00 24 00		M	1879 1880	M	10 50 10 50
	-	1010	M	15 00		M	1886	M M M	6 00
	M	1871	L H	7 20 24 00	Wisconsin,	₩ W	1867 1868	M	12 00 12 00
			L	15 00		M	1869	M	12 00
	M	1872	H	24 00 15 00		M W	1870 1871	M	12 00 15 00
	М	1878	H	24 00 15 00		M	1872 1873	M	15 00 15 00
	M	1874	H	24 00		M M M M M M M M M M M M M M M M M M M	1874	M	15 00
	м	1875	H	15 00 24 00		M M	1875 1876	M M M	15 00 15 00
			L	15 00		X	1877	M	15 00
	M	1876	H	24 00 15 00		₩	1878 1879	M	15 00 15 00
	M	1877	H	24 00 15 00		W	1880 1884	M	15 00 12 00
	M	1878	H	24 00		M	1888	H	18 00
	м	1879	H	15 00 24 00	Foreign Countries.	l		L	9 00
			L	15 00	Austria,	M	1870	M M	1 98 4 00
	M	1880	H	24 00 15 00		M	1884 1885	H	4 00 4 10
	м	1882	L M	7 59 9 84		M	1886	L	2 60 4 00
	X X	1888	H	80 00		M	1889	H	8 75
		1	mh M	24 00 17 67		F		L M	2 40 2 50
	l		ml L	10 00 7 00	Belgium,	M M M	1870 1883	M	2 88 3 00
United States (not			l			M	1884	M	6 15
specified),	M	1879 1880	M M	12 77 12 77		M	1885	M	6 75 5 70
Utah,	M	1870	M	14 40		١.,		Ī,	8 60
	MM	1871 1872	M M M	14 40 14 40		M	1886 1888	L M M	6 16 6 15
	M	1873	M	14 40 14 40	Bohemia,	M	1885 1889	H	2 40 2 80
	N N N N	1874 1875	l Mr	14 40			1009	Ĺ	1 80
	M	1876 1877	M	14 40 14 40	Canada,	F	1888	L M M	1 90 7 00
	X	1878	M M	14 40	China,	Ä M	1889	w	1 85
	M M M	1879 1880	M	14 40 14 40	Denmark,	F M M	1878	M	3 48 1 38
Vermont,	M	1865 1866	M	14 40 6 75 6 75		M	1884 1885	M	4 29
	M	1867	M	7 50		M	1886	M	4 20
	M	1868	M	7 20	l	M	1888	M	4 29

*	G I L	DEL	11 2	EKLI	WAGES - Conti	uucc	··		
Occupations, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Gra de	Weekly Wages
Dyers—Con. Foreign Countries —Con.					Dyers — Con. Foreign Countries — Con.				
England,	M M M	1810 1811 1812	M M M	\$3 84 3 84 8 84	France,	M	1870 1875	M H M	\$3 18 8 40 4 62
	M	1813 1814	M M M	3 84 3 84 8 84 3 84		M	1878	L H	2 31 10 80
	M M M	1815 1816 1817	M	8 84		M	1884	L H	6 00 3 36 6 00
	M	1818 1819 1820	M M M	3 84 3 84 4 32	İ	M	1885	H	4 88 6 00 4 02
	M	1821 1822	M	3 84 3 84		F	1886	L M H	2 88 6 00
	M	1823 1824 1825	M M M	4 32 4 32 4 82	Gormany	M	1888 1865	L M H	4 83 4 83 3 09
	M	1832	H	4 80 8 36	Germany,	F	1900	L M	2 14
	M	1839	L H	1 20 7 20		M F	1866	M	3 57 2 14
	M	1849	M L H	5 04 3 84 6 72		M F M F	1867	M M M	8 57 2 14 8 57
	M	1857	L H	3 84 4 80 2 88		F M F	1869	M	8 57 1 78 8 57 1 78
	M	1858 1859	L M H	2 88 4 80 7 20		M	1870	M H L	8 92 1 74
	M	1860	L M M	3 84 4 80		F F	1871	M	2 14 4 28
	M M	1861 1863 1866	M	4 80 4 80 8 40		M F	1872	M M M	5 00 2 85
			M. L	5 28 3 60		M	1878	H	6 71 9 54
	M	1868 1870	H L M	5 28 3 36 3 38		F M	1874	M H M	2 85 5 71 4 64
	M	1871 1874	M H	5 04 7 20		F		L H	8 56 8 21
	м	1877	M L H	5 52 3 36 6 24		M	1875	L H L	2 14 6 42 8 56
	M	1878	Î. H	8 86 5 75		F		H	8 92 2 14
	M	1880	L H M	4 80 12 00 5 28		M	1876 1877 1878	M M M	8 56 8 56 4 25
			ml L	8 60 2 64		M	1882	H	4 80 3 65
	M	1882 1883	M H mh	7 00 14 40 12 00		M	1883 1884	L M M	2 62 7 14
			M	7 20 4 20		M	1885	H M	5 00 3 53
	M M	1884 1885	L M H	2 64 7 50 7 50		м	1886	L H M	2 03 8 57 5 71
		ŀ	M L	5 10 3 60		м	1887	L H	2 64 3 60
	M	1886	M M ml	7 06 5 22 4 26		M	1888	L H L	2 40 8 85 2 40
England and Scot-			L	3 00		M	1890	H L	3 60
land, England and Wales,	M	1886 1884	H L M	5 92 3 84 6 18	Great Britain,	M	1880	H M ml	6 29 4 96 3 87
magianu allu TT ales,	M	1886 1888	M	6 18 6 18		м	1883	L	1 94 19 46

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OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Dyers — Con. Foreign Countries — Con.					Dyers — Con. Foreign Countries — Con.				
Great Britain,	M	1883	M ml L	\$9 78 5 47 2 48	Scotland, Switzerland,	M M M	1886 1888 1881	L M H	\$3 86 5 56 5 70
Holland,	M	1886 1884 1885	M M M	5 22 8 60 3 60	Dwitzerand,	M	1884 1886	L M M	4 56 5 21 4 91
Ireland,	M	1886 1858	H	3 60 7 20	Dyers' Helpers.	M	1888	M	4 91
	M F	1863	H L M	5 76 6 48 8 12 2 40	United States. California,	M	1868 1869	M M	9 00
	X	1868 1871 1883	M	8 86 5 76 12 00		M	1870 1871 1872	X	9 00 9 00 9 00
	MMM	1885 1886 1888	M M M	4 86 3 12 4 86		M M M M	1878 1874 1875	M	7 50 7 50 7 50
Italy,	M M M	1862 1867 1870	M M M	1 51 1 51 8 84		MMM	1876 1877 1878	M M M	6 48 6 48 6 48
	M	1872 1877 1878	M M	1 74 1 94 8 60		M	1879 1880 1885	M	6 48 6 00 6 00
	M	1882	L H M	1 80 4 68 8 30	Connectiont,	M M M M	1866 1867 1868	M M M	9 96 9 96 9 96
	M	1884	L H L	2 81 4 50 2 70		M	18 6 9 1870	M M H L	9 96 9 96 7 50
	F M M	1885 1886	M M M	2 90 8 00 8 20		M	1871	H L H	9 96 7 50 9 96
	M	1887 1888 1889	M M M	2 49 8 60 8 00		M	1873	L H L	7 50 9 96 7 50
Nova Scotia, Russia,	M	1886 1884	H	4 90 4 82 8 16		M	1874	H mh M	12 00 10 50 9 00
	M	1885	H M L	4 82 3 16 2 00		м	1875	L H L	7 50 9 96 7 50
Scotland	M	1886	H	4 82 8 16 6 00		M	1876	H L H	9 96 7 50 9 96
	M	1866	M L M	4 80 8 60 12 00		M	1878	L H L	7 50 9 86 7 50
	м	1874	H L H	5 75 4 75 5 75		м	1879 1880	H L H	9 86 7 50 9 86
	M	1876	L H L	4 75 5 75 4 75	Delaware,	М	1887 1864	L M M	7 50 4 50 8 00
	M	1877	H M L	5 75 4 75 8 60		M	1865 1866 1867	M	8 00 7 50 7 50
	M	1878	H	7 80 5 75 4 75		MMM	1868 1869 1870	M M M	7 50 7 50 7 50
	M	1880	H M L	6 24 5 28 8 84		M	1871 1872 1873	M M M	7 50 7 50 7 50
	M	1882 1883	M H L	7 00 5 64 4 20		M	1874 1875 1876	M M M	7 50 8 00 8 00
	M	1885 1886	H L H	6 56 5 61 6 24		M	1877 1878 1879	M M M	8 00 8 00 7 50
			M	4 56		M	1880	M	7 50

Occupations, States, and Coun- tries.	8ex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Dyers' Helpers —Con.					Dyers' Helpers — Con.				
United States - Con.			١	l l	United States - Con.	1	İ .		·
Illinois,	M		¥	10 00	Indiana,	M		м	
Indiana,	W W W W W W WWWWWWW W WWWW W WWWWWW	1866 1867 1873 1873 1873 1873 1873 1873 1873 187	<u>КНТКНТНТНТНТНТНТНТНТНТНТНТКККККККККТНТНТНТНТНТ</u>	\$10 50 10 00 10 00 10 00 10 00 10 00 10 00 10 00 10 00 12 00 12 00 12 00 12 00 12 00 13 00 13 00 14 50 4 50 4 50 4 50 4 50 4 50 6 00 7 50 7 50 7 50 7 50 7 50 7 50 7 50 7	Indiana,	KKWKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	1880 1886 1867 1867 1873 1874 1875 1871 1873 1874 1876 1877 1878 1878 1878 1878 1878 1878	RYKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	\$6 002 9 000 9 000 7 7 500 7 7 500 8 000 8 5 000 8 5 000 8 5 5 000 8 5 5 000 8 5 5 000 8 5 5 000 8 5 5 5 5
	м	1877	H	9 00		Ä	1874	M	9 00
			L	7 20		#	1875 1876	M	8 52 8 10
	M	1878	H	9 00		M	1877	Ä	8 10
	M	1879	H M L	7 20 6 00 9 00 7 20 6 00	Massachusetts, .	M M M M M M M M M M	1878 1879 1880 1850 1851	M M M M	7 50 7 20 7 50 4 50 4 50
		1880	Ħ			M	1852		

Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	STATES,	PATIONS, AND COUN- RIES.	Sex	Years	Grade	Weekly Wages
Dyers' Helpers					Dyers'	Helpers				
-Con.					-	Con.	l			
United States - Con.			.			Rates - Con.	_	1888		A 0.00
Massachusetts, .	M	1854 1855	M	\$4 50 4 50	New Jer New Yo	ney, r.k,	F	1860	M	\$8 00 4 20
	M	1856 1857	M	4 50 4 50	`		M	1861 1862	M M M M M	4 20 4 20
	M M M	1858 1859	A A	4 50 4 50 4 50			MM	1863 1864	Ä	4 20 4 20 4 20
	Ä	1860	X	4 50			M	1865	Ň	7 50
	MMW	1861 1862	M M M M	4 50 5 70			M	1866 1867	M	7 50
•	M	1868 1864	M	6 00 7 98	ĺ		M M M	1868 1869	M	7 50 7 50
	M	1865 1866	M.	7 98 7 98	}		M	1870 1874	M	7 50 6 90
	Ä	1867 1868	M M	8 52 8 52	ł		M	1875 1876	X	6 90 6 90
	MMM	1869	<u>x</u>	8 52	ł		M	1877	M M M	6 90
	M	1870	H L H	8 70 6 60 8 70	ŀ		M	1878 1879 1880	M	6 90 6 90 6 90
	M	1872	L H	6 60 9 00			M	1885 1888	H	6 90 11 00
	M	1873	H	6 60 9 00 6 60					mh M ml	9 00 7 50 4 80
	M	1874	L H L	9 00	Ohlo,		M	1851	I.	2 50 7 50
	M	1875 1876	M	7 50 7 50			Ä M	1852 1853	M	7 50 7 50
	M	1877	H	7 50 6 80	ŀ		M	1854 1855	M	7 50
	M	1878	H	7 50			Ä	1856	M M M	7 50
	M	1879	L H	6 30 7 50 6 30	}		M M M M M M M M M M M M M M M M M M M	1857 1858 1859	Ä	7 50 7 50 7 50
	M	1880 1883	L M M	7 50 4 50			Ä	1860 1861	M	7 50 7 50
	M	1885	Ħ	7 50	İ		M	1862	W	9 00
	١		M L	5 00 8 00	ŀ		M	1863 1864	M	9 00
	×	1886	H	4 20 8 12			M	1865 1866	M	9 00
	M	1891	H mh	10 50 9 00			M	1867 18 68	M	9 00
		1	M ml	7 50 6 00			M	1869 1870	M	9 00 7 50
V1		1990	IT.	8 00	ł		M	1871	H	7 50
Missouri,	M.	1877	M	2 84 7 68			M	1872	H	6 00 7 50
	MMM	1878	M	7 82 7 82	1		м	1873	H	6 00 7 50
	M	1880 1886	H	7 86 5 10	1		м	1874	H	6 00 7 50
New Jersey,	м	1877	H	8 60 15 00			м	1875	L H	6 00 7 50
	м	1878	H	9 00 15 00 9 00			м	1876	H	6 00 7 50
	М	1879	H	15 00			М	1877	H	5 40 7 50
	M,	1880	L H L	9 00 15 00 10 00	1		М	1878	H	5 40 7 50
	×	1881	H	9 96	ł		M	1879	H	5 40 7 50
	M	1884	L H	4 50 8 00 8 25			M	1880	L H L	6 00 7 50 6 00
	-		M L	4 50 8 00	Oregon,		M	1875	M	10 50
	×	1888	Ħ	12 00			M	1876 1877	· M	10 50 10 50
			H M L	9 00 4 50			M	1878 1879	M	10 50 10 50
	1		<u> </u>						<u> </u>	

OCCUPATIONS, STATES, AND COUN-	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN-	Sex.	Years	Grade	Weekly Wages
TRIES.				Wages	TRIES.				Wages
Dyers' Helpers —Con.					Dyers' Helpers —Con.				
United States - Con.					United States - Con.				l
Oregon,	M	1880	M	\$10 50	Wisconsin,	M	1870	M	86 75 7 50
Pennsylvania,	M M M M M M	1864 1865 1866 1867 1868 1869 1870	M M M M M M	9 96 9 96 9 96 9 96 9 96 9 96 9 96 9 96		M M M M M M	1871 1872 1878 1874 1875 1876 1877 1878	M M M M	7 50 7 50 7 50 6 75 6 75 6 75 7 50
	М	1872	M	0.00		M	1879	M	7 50
	M M	1873 1874	M	9 00	ł	M	1880 1888	M	7 50 8 64
	М	1875	M	8 00	Foreign Countries.	-	1000	_	""
	M	1876	H	8 00 6 96	England,	м	1866	H	4 82
	М	1877	H	8 00 6 36		м	1868	L M	2 16 2 64
	M	1878	H	8 00 6 00		M M	1877 1880	M M	2 10 2 16 2 40
	F	ļ	L M	8 00		M	1883	H	1 20
	М	1879	H	8 00 6 36	England and Scot-	M	1885	M	2 19
	M	1880	H	8 00	land,	M	1886	H	2 70
	м	1885	L M	6 84 8 00	Great Britain,	м	1883	H	1 56 7 79
Rhode Island,	M M	1886 1866	M	5 82 7 02	•	F.		H	1 70 8 41
Knode island,	M	1867	M	7 02		-		L	2 80
	M	1868 1869	M	7 02 7 02		M	1886	M	1 98
	M	1870	H	7 50	Edgers (Lumber).				
	м	1871	L M	4 02 7 50	United States.				
	M	1872	M	7 50 7 50	Illinois,	M	1886	H	18 78 15 00
	M	1873 1874	M	7 50	Massachusetts, .	M	1885	L H	9 00
	M M	1875 1876	M M	7 50 7 50				M L	7 50 6 00
	M	1877	M	7 50		M	1891	H	15 00
	M	1878 1879	M M	7 50 7 50				mh M	13 50 12 00
	M	1880	H	7 50	Maklana	м	1883	L	8 10 19 50
Utah,	M	1871	M	4 14 9 00	Michigan,	181	1000	mh	18 00
•	M M	1872 1873	M	9 00		•		M ml	15 00 12 00
	M	1874	M	9 00				L	9 00
	M	1875 1876	M	9 00		M	1884	H mh	21 00 18 00
	M	1877 1878	M	9 00				M ml	15 00 12 00
	M	1879	M	9 00				L	9 60
Vermont	M	1880 1862	M M	9 00 8 72		M	1885	H mh	16 50 15 00
	M	1886	M	3 18				M	12 75
Virginia,	M	1870 1871	M	4 80 4 80				ml L M	10 50 9 00
	M	1872 1878	M M	4 80 4 80	Missouri,	M	1886 1887	M M	10 50 15 00
	М	1874	M	4 80	Ohio,	M	1887	H	18 00
	M M	1875 187 6	M M	4 80 4 80		1		mh M	15 00 12 00
	M	1877	M	4 80	December 1		1000	L	7 50
	M M	1878 1879	M M	4 80 4 80	Pennsylvania,	M	1876 1877	M	12 00 10 50
Wissensin	M	1880 1867	M M	4 80 4 80 6 00		M	1878	H	10 80 7 50
Wisconsin,	M	1868	M	6 00		M	1879	H	10 50
	M	1869	M	6 00	I	ı	i	M	8 40

No. 15.] GRADED WEEKLY WAGES.

	3 101	DEL			WHODE COM				
OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Edgers (LUMBER) — Con. United States-Con. Pennsylvania,	M	1879	L	\$ 6 90	Edge Setters (BOOTS AND SHOES) — Con. United States - Con.				i i
Tempyrama,	M	1888	mh M ml	16 50 15 00 18 50 12 00 9 00	Massachusetts, .	M M M M	1864 1865 1866 1867 1868	M M M M	\$16 50 19 50 19 50 24 00 27 00
West Virginia,	M	1886 1888	L M M	7 50 12 00		М	1869 1870	H	27 00 28 50 15 00
Edge Setters (Boots and Shors).						М	1871	H	27 00 16 00
United States.	l	1				M	1872	H L	24 00 18 00
California,	M	1886	H	12 00 9 00		M	1878	H	21 00 18 00
Illinois,	M	1875 1876	M	15 00 15 00		M	1874	H	16 50 15 00
	M	1877 1878	M	15 00 15 00		M	1875 1876	M	14 00 14 00
	M	1879 1880	M	15 00 15 00		м	1877	H	10 50 12 00
Indiana,	M	1860 1866	M	10 50 15 00		M	1878	L M	9 00 10 00
	M	1870 1871	M	12 00 12 00		M	1879	H L	13 50 10 00
	M	1872 1878	M M M	12 00 12 00		M	1880	H	15 00 10 00
	M	1874 1875	M	12 00 12 00		M	1883	H mh	18 00 15 00
	M	1876 1877	M M M	12 00 12 00		ļ		M ml	13 50 12 00
	M	1878 1879	M	12 00 12 00		М	1885	H	10 00 24 00
Maine,	M	1880 1865	M M	12 00 10 50				mh M	20 00 16 00
•	M	1866 1867	M	10 50 10 50				ml L	11 00 7 00
	M	1868 1869	M M	12 00 12 00		M	1886	mh	15 60 14 22
	M	1870	H L M	15 00 18 50				M L	12 96 10 44
	M	1871 1872	M	15 00 18 50		M	1891	H mh	25 38 22 50
	M	1878 1874	H	12 00 14 00				M mi	19 50 15 00
			L	12 60				L	12 30
	M	1875	H	14 00 12 60	New Jersey,	M	1881 1882	H	15 00 14 00
	М	1876	Ħ	18 20 12 00		м	1883	L H	12 75 15 00
	M	1877	H	18 20		"	2000	M	18 00
	M	1878	H	12 00 13 50		М	1884	H	16 50
	M	1879	H	12 00 14 40				mh M	15 00 14 00
	M	1880	H	12 00 15 00		,,	1885	ml L H	12 00 10 00 20 00
Maryland,	M	1875	L M	12 00 18 00		М	1999	mb	18 00
• •	M	1876 1877	M	18 00 18 00				M ml	14 00 10 00
	IМ	1878	M	18 00			1000	L	7 00 18 00
	M	1879 1880	M	18 00 18 00		М	1886	H mh	15 00
	M	1885	M	11 00			ļ	M	12 00 8 00
		1886	H	12 00 7 98	ł	М	1888	H	21 00
Massachusetts, .	M	1861 1862	L M M	12 00 15 60	New York,	м	1886	L H	15 00 16 74
	M	1868	M	15 00		_		M	15 72
			<u>'</u>			<u></u>		` 	

Occupations, States, and Coun- tries.	Sex	Years	Grade	Weckly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Edge Setters (Boots and Shoes) — Con. United States - Con.					Edge Trimmers (Boots and Shors) — Con. United States - Con.				
New York	M	1886	L	\$18 02	New Jersey,	M	1888	L	\$12 00
Obio,	M	1888	H mh M ml L M	85 00 28 00 22 00 16 00 10 00 10 50	New York,	M M M	1886 1886 1888	H L H L mh	16 00 10 00 15 90 13 98 28 00 25 00
	MAMMAMM	1867 1868 1869 1870 1871 1872 1873	M M M M M	10 50 10 50 10 50 10 50 10 50 10 50 10 50	Pennsylvania,	M M M	1872 1878 1874 1875	M N E M	20 00 16 00 12 00 18 00 21 00 18 90 16 80
	M M M	1876 1877 1878 1879	M L L L L L	12 00 12 00 10 50 12 00 10 50 12 00 10 50	Wisconsin,	M M M M	1876 1877 1878 1879 1880 1886 1888	K K K K K K K K K K K K K K K K K K K	14 70 12 60 18 65 15 75 15 76 20 94 15 06
Pennsylvania	M	1880 1887 1872	H L M M	15 00 10 50 12 90 12 00	Electricians. United States.				
	M	1872 1873	M	15 00	Illinois,	M	1884	Ħ	68 88
•	MMM	1874 1875 1876 1877	M M M M	18 50 12 00 10 50 9 00	Massachusetts, .	M	1885	L M M L	13 50 20 77 17 81 9 00
	MMMMM	1878 1879 1880 1886 1888	M M M M	9 75 11 25 11 25 18 00 20 00		M	1891	H mh ml ml L	82 00 25 00 21 00 14 25 8 00
			mh M	18 00 15 00	Michigan,	M	1884	H	18 00 18 60
Wisconsin,	M	1888	L M	12 00 14 58		М	1891	mh M	15 00 12 00 10 50
Edge Trimmers (Boots and Shoes). United States.					Missouri, New York,	M	1890 1888	L M H M	7 59 15 60 52 00 80 00
California,	М	1886	H	12 00 9 00				ml	19 50 9 00
Maryland,	M M	1885 1886	L M H L	9 00 15 00 12 00	Ohio,	М	1887	L H M L	17 40 15 00 12 00
Massachusetts, .	M	1888	H mh M	20 00 18 00 15 00	Pennsylvania, Wisconsin,	M	1886 1888	M	13 00 14 82
			ml L	18 50 10 00	Electrotypers.		l		
	M	1885	H mb	28 00 22 50 18 00	United States. California,	м	1886	Й	21 00
			M ml L	18 00 13 50 9 00		M	1888	L H L	10 00 21 00 10 00
	M	1886	H M	18 00 15 90	Illinois,	M	1879 1882	M	15 00 18 50
	M	1891	L H mh	12 90 22 00 20 00		M	1885 1886	H	21 00 21 00 19 50
New Jersey,	M	1882 1883	M L M H M	18 00 15 00 14 00 15 00 13 00	Maryland, Massachusetts, .	M	1885 1883	L H M L	18 00 15 00 80 00 20 00 10 00

Occupations, States, and Coun- tries.	8ex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Electrotypers — Cou. United States - Con. Massachusetts,	M M	1885	H L H mh	\$16 50 12 00 24 00 21 00	Embroiderers (CLOTHING) — Con. United States - Con. New York,	P M	1688 1889	M L H	\$7 80 5 00 35 00 24 00
Michigan, Missouri,	M M M	1891 1885 1887 1885	HKKKTBK PBK	18 00 15 00 12 00 12 00 18 00 16 00 14 00	Pennsylvania, Foreign Countries.	F M	1888	L H L M	12 00 7 00 6 00 6 00
New York,	M	1886 1888	EKBUKT	14 00 6 00 17 52 28 50 22 00 17 00 18 00	China, England,	M	1889 1886 1875 1878	M H L H L	1 80 8 78 4 90 8 00 4 80 2 40
Ohio,	M	1878 1880 1888	L H L H	6 00 8 40 18 00 9 00 18 56	Germany,	4444	1886 1878 1874 1875 1886	KKKTH	4 80 2 88 1 66 1 42 1 19 1 82
Embroiderers (Clothing). United States.			L	12 18	Enamellers. United States. Massachusetts,	M	1885	M	12 00
Connecticut, Massachusetts, .	E PMP	1888 1887 1885	H M L M H	9 00 7 50 6 00 10 88 15 00	New Jersey,	M	1891	H B M B L H	20 00 18 00 15 00 12 00 9 00 21 00
	M	1891	N BL H	16 00 10 00 7 50 4 80 20 00 15 00	New York,	M M M	1888 1888 1888	L M M H	12 00 21 00 24 00 7 50 18 00
	F		el L H E M E M E M	12 00 10 00 10 00 7 00 6 00	Ohio,	MMF F	1880 1888 1889	T M M H L M	10 00 13 50 14 88 9 50 5 50 8 00
Missouri,	E W	1887 1886 1888 1888	T H T M H T M M M M	8 00 10 00 19 80 18 00 7 50 7 25	Foreign Countries. England,	BBMF	1857 1860 1866 1871 1874	M M M M M	2 52 2 52 2 88 11 52 2 64 4 80
-	E W	1884 1885	HLHLHLH	25 00 15 00 20 00 10 00 7 00 5 00 81 25		-	1877 1878 1880 1883	HLMMHLM	4 80 2 88 8 86 2 52 4 82 2 88 2 92
	M	1887	HABAHL	25 00 18 00 12 00 6 00 80 00 20 00	Great Britain,	F	1880	H	2 54 1 31
	M F	1888	H mh L H	25 00 20 00 18 80 8 82 10 00	United States. Arkaness,	M	1870 1871 1872	M M M	9 00 9 00 9 00

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OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Engineers (Corton, Woollen, AND OTHER TEXTILES) — Con.					Engineers (Cot- ton, Woollen, And Other Tex- tiles) — Con.				
United States - Con.	l	}			United States - Con.			ł	
Arkansas	м	1873	M	89 00	Illinois,	M	1859	H	\$9 00
	M	1874	M	9 00				L	7 50
	M	1875 1876	M	9 00	ŀ	M	1860	H	13 60 7 60
•	M	1877	M	9 00		M	1861	H	13 50
	M	1878 1879	M	9 00		м	1862	H	9 60 13 60
~	M	1880	M	9 00		_		L	9 60
California,	M	1867 1868	M	18 46 18 46		M	1863	H	13 50 10 50
	M	1869	M	18 46		M	1864	H	13 50
	M	1870 1871	M	18 46 18 46		1	1005	L	12 00
	M	1872	M	18 46		M	1865	H L	15 00 18 50
	M	1878	M	18 46		M	1866	H	15 00
	M	1874 1875	M	18 46 18 46		м	1867	H	13 50 15 00
	M	1876	M	18 46				L	13 50
	M	1877 1878	M	18 46 18 46		M	1868	H L	15 00 18 50
	M	1879	M	18 46		м	1869	Ħ	15 00
	M	1880	M M	18 46 18 46		м	1870	H	18 50
	м	1886	H	26 40		M	1010	L	16 50 15 00
	м	1888	Ľ	16 50		М	1871	M	16 50
	^m	1000	H	80 00 22 50		M	1872 1878	M H	16 50 18 00
Connecticut,	M	1866	M	18 00		1		L	16 50
	M	1867 1868	M M	18 00 18 00		M	1874 1875	M	16 60 16 50
	M	1869	M	18 00		M	1876	H	16 50
	M	1870 1871	M ·	18 00 18 00		М	1877	L	15 00 16 60
	M	1872	M	18 00		M	1011	H	15 00
	M	1873 1874	H	18 00		M	1878	H	16 50 15 00
	M	1012	M	18 00 15 00		м	1879	H	15 00 16 50
			L	11 25				L	15 00
	M	1875	H	18 00 15 00		M	1880 1885	M	16 50 16 50
	M	1876	H	18 00		M	1886	M	17 28
	м	1877	H	13 50 15 72	Indiana,	M	1850 1851	M	6 00 6 00
			L	12 00		M	1852	M	6 00
	M	1878	H L	15 72 11 00		M	1853 1854	M M	6 00
	M	1879	M	15 72		M	1855	M	6 00
	M	1880 1881	M	15 72		M	1856	M	7 50
	M	1886	M H	15 00 15 72		M	1857 1858	M M	7 50 7 50
			L	12 00	!	M	1859	M	7 50
	М	1887	H	19 20 16 47		M	1860 1861	M	9 00
	l		L	11 24		M	1862	M	9 00
Delaware,	M	1880 1886	M M	8 00 12 00		M	1863	H	9 00 7 50
Georgia,	M	1886	M	9 00		М	1864	H	12 00
Illinois,	M	1850 1851	M	9 00		1		L	7 80
	M	1852	M	9 00		M	1865	H	12 00 9 00
	M	1858	M	9 00		M	1866	H	15 00
	M	1854 1855	M M	9 00		м	1867	H	9 UO 15 OO
	M	1856	M	9 00				L	9 00
	M	1857	H L	9 00 7 50	1	M	1868	H	15 00 9 00
	M	1858	H	9 00		M	1869	H	15 00
	1	1	L	7 50	ļ	! !		L	9 00
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OCCUPATIONS, STATES, AND COUNTRIES.	Вех	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Engineers (Cot- ton, Woollen, and Other Tex- tiles) — Con.					Engineers (Cor- ton, Woollen, and Other Tex- tiles) — Con.				
United States - Con.	ļ	ļ	İ	1	United States - Con.		ŀ		}
Indiana,	M	1870	н	\$15 00	Massachusetts	M	1883	L.	89 60
•	1		L	9 00		M	1885	H	26 00
	M	1871	H. M	15 00 12 00				mh M	21 00 16 50
	М	1872	L H M	9 00 15 00 12 00		м	1886	ml L H	11 50 7 00 22 50
	М	1878	H	9 00 12 00 9 00		1		mh M	18 00 15 00 11 40
	М	1874	L H M	15 00 12 00		M	1891	mi L H	11 40 7 02 86 00
	м	1875	L H M	9 00 12 00 10 60		_		mh M L	25 00 21 00 12 50
	м	1876	L H	9 00 12 00	Michigan,	M	1867 1868	M M	12 00 12 00
	м	1877	L H	10 50 9 00 12 00		M M M	1869 1870 1871	M M M	15 00 15 00 15 00
	M	1878	Ë	9 00		M	1872 1878	M	15 00 15 00
	м	1879	H	9 00 12 00		M M	1874 1875	M M	15 00 15 00
	M	1880	L H L	9 00 12 00 9 96		M M M	1876 1877 1878	M M M	15 00 15 00 15 00
	М	1886	H	12 00 9 00		M	1879 1880	M M	13 50 13 50
Iowa,	M	1886 1864	M	18 00 15 00	Missouri,	M M	1884 1870	M	12 00 21 00
	Ä	1865 1866	Ä	16 00	i ¹	M	1871	W	24 00 · 24 00
	M	1867	M	15 00 12 00		M	1872 1873	M	24 00
	M	1868	M	12 00		M	1874	M	22 50
	M	1869	M	12 00		M	1875	W	22 50
	M	1870 1871	M	12 00 18 50		M	1876 1877	M	21 00 21 00
	М	1872	M	13 50		M	1878	M	19 00
	M	1878	M	15 00		M	1879	M	19 00
	M	1874 1875	M M	18 50 13 50		M	1880 1886	M	19 00 15 00
	M	1876	M	18 50		M	1887	M	12 00
	M	1877	M	13 50	New Hampshire, .	M	1860	M	8 25
	M	1878 1880	M	18 50 15 00		M	1861 1862	M M	8 25 8 25
	M	1886	M	18 00		M	1863	M	9 00
Maine,	M	1886	M	9 00		M	1864	M	9 00
Maryland,	М	1885	H	15 00 12 00		M	1865	M	12 00 12 00
	м	1886	H	12 00]	M	1866 1867	Mi	12 00 12 00
	-		M	10 50		M	1868	M	13 50
W		1050	L	9 00	\$	M	1869	M	18 50
Massachusetts, .	X	1870 1871	M	7 50 7 50		M M	1870 1871	M M	15 00 15 00
	M	1872	M	7 60	· •	M	1872	M	15 00
	M	1878	M	7 50		M	1873	M	16 50
	M	1874 1875	M M	7 50 7 50		M	1874 1875	M M	16 50 18 00
	M	1876	M	7 50		M	1876	M	18 00
	M	1877	M	7 50	ļ	М	1877	M	18 00
,	M	1878 1879	M	7 50 7 50		M	1878 1879	M. M.	18 00 18 00
	M	1880	M	7 50		M	1880	M	18 00
	M	1888	H	24 00	i	M	1886	M	18 00
			mh M	21 00 16 50	New Jersey,	M	1861	H	15 00
			ml	18 50		M	1866	M	18 50 9 96
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Occupations, States, and Coun-	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN-	Sex	Years	Grade	Weekly Wages
	Sex MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	Years 1867 1868 1870 1871 1873 1873 1873 1878 1880 1880 1883 1886 1886 1886 1886 1867 1878 1878 1878	Grade Crack THE THE THE THE THE THE THE THE THE THE	Weekly Wages		м мимимимимимимимимимимимимимимимимимим	Years 1886 1871 1872 1878 1879 1870 1880 1864 1865 1866 1867 1871 1872 1873 1874 1875 1877 1878 1877 1878	Grade MLMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	Weekly Wages \$10 98 9 00 12 00 12 00 10 80 10 00 10 90 10 90 12 00 13 00 14 04 16 50 18 00 19 96 7 60 18 00 18 00 19 96 18 02 18 00 19 06 18 00 19 06 18 00 19 06 18 00 18 00 19 06 18 00 18 00 19 00 18 00 18 00 19 00 18 00 18 00 19 00 18 00 19 00 18 00 19 00 18 00 19 00 19 00 19 00 10 00
North Carolina, .	M	1888 1886	L mh M L H	7 50 22 24 18 00 15 00 10 50 15 00	Rhode Island,	M M M M M	1866 1867 1868 1869 1870	L M M M H	9 00 10 50 10 50 10 50 10 50 22 50

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Occupations, States, and Coun- tries.	8ex	Years	Grade	Weekly Wages	Occupations, STATES, AND COUN- TRIES,	Sex	Years	Grade	Weekly Wages
Engineers (Cot- ton, Woollen, and Other Tex- tiles) — Con. United States - Con.					Engineers (Cot- ton, Woollen, and Other Tex- tiles) — Con. Foreign Countries				
Rhode Island	M	1870	L	\$ 10 50	Con. England,	M	1883	mì	87 54
Ande man,	M M M M	1871 1872 1873 1874 1875	M M H L H L	10 50 10 50 10 50 18 00 10 50 18 00 10 50	inginity	M	1884 1885	L M H mh M ml	5 10 10 22 11 19 9 97 8 51 7 80 4 86
	Ж	1876 1877	H L H	18 00 10 50 18 00		M	1886	mh M	18 50 11 60 9 50 7 44
	M	1878 18 7 9	L H L	10 50 12 80 10 50 12 80	France,	M	1882	M L H L	4 56 6 96 5 82
Vermont,	M	1880 1882	L L L	10 50 27 00 10 50 18 50		M M	1883 1886 1886	M H L	24 00 5 82 7 20 5 76
	M M M	1868 1864 1865 1866	M M M	18 00 18 00 18 00 18 00	Great Britain,	M M M	1882 1885 1887 1880	M M M	4 30 5 80 4 32 9 68
	MMMM	1867 1868 1869 1870	M M M	18 00 24 00 24 00 24 00		M	1888	L H M ml	8 47 14 60 10 22 8 27
	MMM	1871 1872 1878 1874 1874	M M M	24 00 80 00 80 00 80 00 27 00		M	1886	L H M ml L	6 08 12 00 10 80 8 88 7 20
	N N N N N N	1876 1877 1878 1879 1880 1886	M M M	27 00 27 00 27 00 24 80 27 00 25 98	Holland, Ireland,	M	1885 1888 1886	M H M ml	5 20 5 76 14 44 6 72 4 80 2 74
Virginia,	M	1886	M	6 78	Italy,	M	1882 1886	H L	4 00 5 82 8 42
Foreign Countries. Belgium,	M M	1882 1886	H L M	7 00 5 00 3 96	Poland,	M M	1882 1856 1857	H L H	5 00 7 20 6 00 7 20
Bohemia, England,	M	1886 1850 1857	M M M	4 50 5 88 14 40		м	1858	L H L	6 00 7 20 6 00
	M	1860 1866 1870	H L M M	12 00 7 29 5 28 8 27		M	1860 1861	H L H L	7 20 6 00 7 20 6 00
	M	1874 1877 1879	H	10 08 18 98 8 27 12 00		M	1886	H M ml L	9 84 6 64 4 80 3 86
	M	1880	H L H mh	\$ 04 12 00 9 60	Engineers (Food Preparations).				0.30
	M	1882	L H mh	8 40 5 04 12 00 9 60	United States. California,	M M	1861 1862	M	80 00 80 00
	M	1888	M L H mh	8 00 5 04 14 40 11 19 9 97		N N N N N N N N	1868 1864 1865 1866 1867	M M M	80 00 80 00 80 00 80 00 80 00
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OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Engineers (Food PREPARATIONS) — Con.					Engineers (Food PREPARATIONS) — Con.				
United States - Con.					United States - Con.		İ		l
California,	M M M	1868 1869 1870 1871 1872	M M M M M M	\$30 00 80 00 80 00 80 00 24 00 80 00	Illinois,	M M M M M	1861 1862 1863 1864 1865 1866	H M M M	\$9 00 9 24 11 52 15 00 17 22 23 04
	M	1878	L H L	23 08 80 00 24 00		M	1867	L L	18 00 23 04 18 00
	M	1874	H L H	30 00 24 00 30 00		M	1868	H L H	23 04 18 00 23 04
	м	1876	L H L	24 00 80 00 24 00		M	1870	L H L	18 00 23 04 18 00
	M	1877	H L H	30 00 24 00 30 00		M	1871 1872 1873	M M	28 04 23 04 28 04
	M	1879	L H L	24 00 80 00 24 00		M	1874	H	23 04 10 56 23 04
	M	1880 1885	H L M	80 00 24 00 24 00		м	1876	H H	18 48 10 56 28 04
Colorado,	M	1886	H L M	30 00 18 00 18 00				M ml L	18 48 15 00 10 56
	M M	1869 1870 1871	M	18 00 18 00 16 50		M	1877	H M ml	28 04 18 48 15 00
	M M	1872 1878 1874	M M	16 50 16 50 16 50		M	1878	H M	10 56 23 04 18 48
	MWWW	1875 1876 1877 1878 1879	M M M M	16 50 16 50 16 50 16 50 16 50		M	1879	ml L H mh	12 00 10 56 23 04 18 48 16 50
Connecticut,	M M M	1880 1876 1877 1878	M	16 50 14 52 15 00 13 74		M	1880	ml L H M	15 00 10 56 28 04 18 00
Dakota	M M M	1879 1880 1887 1872	M	12 00 13 98 16 00 28 08		M M	1881 1885 1886	L M M H	10 56 10 56 23 04 21 48
Dasous,	MMM	1878 1874 1875 1876	M M M	23 08 23 08 23 08 23 08 23 08			1000	mh M ml	18 00 15 00 12 00 9 00
	M	1877 1878 1879	M	23 08 23 08 23 08 23 08	Indiana,	M	1870 1871	M H L	18 00 18 00 12 00
Georgia,	M M M	1880 1877 1878	M M M	28 08 10 00 10 50		M	1872 1873	H L H	18 00 12 00 18 00
Illinois,	M M M	1879 1880 1850	M M M	12 00 15 00 9 00		M	1874	L H L	12 00 18 00 12 00
	M M M	1851 1852 1853	M M M	9 00 9 00 9 00		M	1875 1876	H L H	18 00 9 96 21 00
	M M M	1854 1855 1856	M M M	9 00 9 00 9 00		M	1877	L H L	9 96 21 00 9 00
	M M M	1857 1858 1859	M M	9 00 9 00 9 00		M	1878	H M L	21 00 12 00 9 00
	М	1860	M	9 24		M	1879	H	21 00

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OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Engineers (Food PREPARATIONS) — Con.					Engineers (Food PREPARATIONS) —Con.				
United States - Con.					United States - Con.				
Indiana,	M	1879	M	\$12 00	Massachusetts, .	M	1885	M	\$ 18 00
	M	1880	H	9 00 12 00				ml L	13 00 8 08
Indian Territory, .	M M M	1885 1886 1873 1876	M M T	9 00 21 00 14 40 9 24 6 90		M	1891	Heb Mel L	80 00 25 00 21 00 16 00 12 00
Iowa,	M	1880 1871	M	6 90 11 52	Michigan,	M	1871 1872	M	18 50 18 50
	M	1872	H	10 50 7 62		M	1873 1874	M M	18 50 15 00
	M	1878 1874	M	9 00		M	1875 1876	M M	13 50 15 00
	M	1875	M	9 00		M	1877	M	13 50
	M	1876 1877	M	9 00		M	1878 1879	M M	12 00 12 00
	M	1878	M	9 00		M	1880	M	15 00
	M	1879 1880	M	8 28 9 00		M	1884	H mb	30 00 24 00
	M	1885	H	10 02				M	21 00
Maine,	M	1866	L M	9 00 16 50				ml L	15 00 9 00
	M	1867	H	18 00	344	M	1885	M	15 00
	м	1868	H	18 98 20 76	Minnesota,	M	1875 1876	H	23 04 23 04
	м	1869	H	15 00 20 76		м	1877	L H	18 00 23 04
			L	15 00		_		L	18 00
	M	1870	H L	20 76 15 00		М	1878	H	28 04 18 00
	M	1871	H	20 76 16 50		Ж	1879	H	28 80 18 00
	M	1872	H	20 76		M	1880	L H L	28 04 21 00
	M	1878	H	16 50 20 76 16 50	Missouri,	Ж	1871	M M	28 80 28 80
	M	1874	H	20 76		M	1872 1873	M	28 80
	M	1875	L H	15 00 20 76		M	1874 1875	M	28 80 28 80
			L	15 00		M	1876	H	28 80
	M	1876	H	19 56 15 00		M	1877	H	8 10 28 80
	M	1877	H	19 56 15 00		M	1878	H	8 10 28 80
	M	1878	H L	19 56 15 00		м	1879	L H	8 10 24 72
	M	1879	H	19 56 16 50		м	1880	L H	8 10 24 72
		1000	L	12 00				L	8 10
	M	1880	H	19 56 18 50		M	1886	H	28 80 18 00
Maryland,	M	1871	L M	12 00 9 00				ml L	11 52 9 48
mary mou, · ·	M	1872	M	9 00		м	1887	H	18 00
	M	1878 1874	IM I	9 00				M	15 00 14 00
	N N N N N N	1875	M	9 00				L	11 40
	M	1876 1877	M	9 00	Ì	M	1890	H mh	20 16 15 00
	M	1878	M	9 00				M	12 00
	M	1879 1880	M	9 00	Nevada,	M	1878	L M	8 10 83 00
Massachusetts	M.	1885 1883	H	12 00 30 00			1874 1875	M	88 00 83 00
massachustki, .	=	1002	M	21 00		M	1876	M	88 00
	M	1885	L H	17 50 80 00		M	1877 1878	M	83 00 83 00
	-	1	mh	20 00		M	1879	M	83 00
	1	<u> </u>	<u> </u>	<u> </u>	!			<u> </u>	

OCCUPATIONS, STATES, AND COUNTRIES.	Rex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Engineers (Food PREPARATIONS) — Con.					Engineers (Food PREPARATIONS) — Con.				
United States - Con. Nevada,	M	1880			United States - Con.				
New Mexico,	M	1864	M	\$33 00 23 08	Ohio,	M	1882	mi L	\$10 86 9 00
	M	1865 1866	M M M	23 08 28 08		M	1886	H	21 00 9 00
	MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	1867 1868 1869 1870 1871 1872 1873 1874 1875	M M M M	23 08 23 08 17 22 17 22 17 22 17 22 17 22 17 22 17 22 17 22	Pennsylvania,	M M M M M M M M	1878 1874 1675 1876 1877 1878 1879 1880 1867	и В В В В В В В В В В В В В В В В В В В	18 00 17 28 19 20 19 20 19 20 16 50 16 50 19 20 6 00 6 00
	M	1877	M	17 22	į	M	1869	M	6 00
New York,	M M M M	1878 1879 1880 1868 1869	M M M	17 22 17 22 17 22 18 00 18 00	West Virginia, .	M M M M	1870 1865 1866 1867 1868	M M M	6 00 14 00 14 00 14 00 14 00
	M	1870 1871	M M	18 00 18 00		M	1869 1870	M	14 00 14 00
	M	1872 1873	M	18 00 18 00		M	1871	M	14 00
	M	1874	M	18 00		M	1872 1878	M	14 00 14 00
	M	1875 1876	M	18 00 18 00		M	1874 1875	M	14 00 14 00
	M	1877 1878	M	18 00 18 00		M	1876	M	14 00
	М	1879	M	24 00		M	1877 1878	M	14 00 14 00
	M	1880 1885	M	24 00 24 00		M	1879 1880	M	14 00 14 00
	M	1888	H mh	38 46 30 00		М	1886	M	12 00
			M	23 00	Foreign Countries.				ĺ
_			ml L	15 00 6 00	Canada	м	1878	н	15 00
Ohio,	M	1869	H	15 00 12 00	•			M L	11 54 8 08
	M	1870	H	15 00	England,	M	1855	M	5 52
	M	1871	H	12 00 15 00		M	1856 1857	M	5 52 5 52
	М	1872	H	12 00 15 00		M	1858 1859	M	5 52 6 24
	М	i	L	12 00		M	1860	M M M	7 20
	1	1873	H	15 00 12 00		i Ma	1861 1862	M	7 20 6 48
	M	1874	H	15 00 12 00		M	1866 1877	H	5 28 11 88
)	M	1875	H	15 00 12 00		м	1880	L	7 20
	м	1876	H	15 00		_		H	5 16
j	м	1877	L H	12 00 15 00		M	1883	H	7 20 5 72
			M	12 00 9 00	Hawaiian Islands, .	M	1881	H	34 62
	١.,		L	7 50	Scotland,	M	1866	L M	23 08 7 20
	M	1878	H L	15 00 12 00		M	1880	H	6 66 5 52
į	M	1879	H	15 00 12 00		M	1883	H	8 52
	М	1880	H	15 00			1	L	6 72
	M	1881	H	12 00 12 00	Engineers (Fur-				1
	_		M	9 48 7 50	United States.	1			
	M	1882	H	15 00	California,	M	1870	M	23 08
			noh Ma	13 26 12 00		M	1871 1878	M	23 08 23 08
		l			<u> </u>	<u> </u>			

Engineers (FUR- RITURE) — Con. California, . M 1875 M 220 88 M 1875 M 220 88 M 1876 M 220 88 M 1878 M 220 88 M 1878 M 220 88 M 1878 M 220 88 M 1878 M 220 88 M 1878 M 220 88 M 1880 M 1	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Connecticut,	NITURE) — Con. United States - Con.	M	1875 1876 1877 1878 1879 1880	M M M	23 08 23 08 23 08 23 08 23 08 23 08 23 08	NITURE) — Con. United States - Con. Illinois,	M M M	1858 1859 1860 1861 1862	L M M M M	10 50 10 50 10 50 9 00 9 00 9 00
Georgia M 1880 M 1871 H 15 00 12 00 M 1872 H 16 50 M 15 00 M 1873 H 16 50 M 15 00 M 1874 H 16 50 M 12 00 M 1875 H 16 50 M 1875 H 16 50 M 1875 H 16 50 M 1875 H 16 50 M 1875 H 16 50 M 1875 H 16 50 M 1875 H 16 50 M 1875 H 16 50 M 1875 M 12 00 M 1876 M 1876 M 15 00 M 1876 M 1876 M 15 00 M 1876 M 15 00 M 1876 M 15 00 M 1876 M 15 00 M 1877 M 13 50 M 12 00 M 1875 M	Connecticut,	M M M M M M M M M M M M M M M M M M M	1860 1861 1862 1864 1865 1866 1867 1869 1870 1871 1872 1873 1874 1875 1876 1877	M M M M M M M M M M M M M M M M M M M	12 00 12 00 15 00 15 00 16 50 18 00 16 50 16 50 16 50 16 50 16 50 16 50 16 50 17 50 18 50		M M M M M M	1864 1865 1866 1867 1868 1869 1870 1871 1872 1878	MMMMHLHLHLHLHLHLHLHLH	10 50 10 50 10 50 10 50 10 50 12 00 10 50 12 00 10 50 12 00 10 50 12 00 10 50 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00
M	Georgia, Iliinois,	M	1880 1871 1872	M H L H M L	12 00 15 00 12 00 16 50 15 00 12 00		M M	1877 1878	H L H L H L	12 00 9 00 10 50 9 00 10 50 9 00
M				M ml L H mh	15 00 13 50 12 00 16 50 18 86	Town	M	1880 1886	M L M H L	10 50 9 00 12 00 19 98 15 00
M 1876 H 15 00 Kansas, M 1870 M 12 00 M 1871 M 12 00 M 1877 H 15 00 M 1873 M 12 00 M 1878 M 12 00 M 1878 H 15 00 M 1876 M 12 00 M 1878 M 12 00 M 1878 H 15 00 M 1877 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1880 M 12 00 M 1880 M 12 00 M 1880 M 12 00 M 1880 M 12 00 M 1880 M 12 00 M 1880 M 12 00 M 1880 M 12 00 M 1880 M 12 00 M 1880 M 12 00 M 1880 M 12 00 M 1880 M 12 00 M 1880 M 12 00 M 1800 H 13 50 M 1868 H 13 50 ml 16 50 ml 18 50 ml 18 50 ml 18 50 ml 18 50 ml 18 50 ml 18 50 ml 18 50 ml 18 50 M 1883 H 13 50 L 12 00 M 1883 H 13 50 L 12 00		M	1875	mi L H mh M mi	10 50 6 00 16 50 18 86 12 00 10 50		M M M M	1875 1876 1877 1878 1879 1880	M M M	15 00 15 00 13 50 13 50 12 00 12 00
M 1878 H 15 00 M 1879 M 12 00 M 1877 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1878 M 12 00 M 1880 M 12 00 M 1880 M 12 00 M 1880 M 12 00 M 1880 M 12 00 M 1880 M 12 00 M 1880 M 12 00 M 1880 M 12 00 M 1860 H 13 50 M 1860 M 1860 H 13 50 M 1860				H mh M L	15 00 13 50 10 50 6 00	Kausas,	MMMM	1870 1871 1872 1878	M M M	12 00 12 00 12 00 12 00
M 1879 H 16 50 mh 15 00 M 1860 H 13 50 ml 10 50 M 1860 H 13 50 M 1860 H 13 50 M 1860 H 13 50 M 1860 H 13 50 M 1860 H 13 50 M 1860 H 13 50 M 1861 H 13 50 M 1862 H 13 50 M 1862 H 13 50 M 1863 H 13 50 M 1		м	1878	M L H mb	18 50 10 50 7 50 15 00 18 50		MMMM	1875 1876 1877 1878 1879	M	12 00 12 00 12 00 12 00 12 00
M 1880 H 16 50 M 1862 H 18 50 L 12 00 M 1868 H 13 50 L 12 00		M	1879	L H mh M	7 50 16 50 15 00 13 50 10 50	Kentucky,	M M M	1858 1859 1860	M H L H	12 00 12 00 13 50 12 00 13 50
		M	1880	mh M ml	9 00 16 50 15 00 13 50 12 00		M	1863	L H L H L	12 00 18 50 12 00 13 50 12 00

OCCUPATIONS, STATES, AND COUN-	Sex	Years	Grade	Weekly	OCCUPATIONS,	9		G4-	Weekly
TRIES.	SCA	Icars	Grade	Wages	STATES, AND COUNTRIES.	Sex	Years	Grade	Wages
Engineers (Fur- NITURE) — Con.					Engineers (Fur- NITURE) Con.				
United States - Con.	1				United States - Con.			ŀ	1
Kentucky,	M	1864	L	\$12 00	New York.	M	1865	м	\$18 00
	M	1865	H	18 50	10.2,	M	1866	M	18 00
	м	1866	H	12 00 13 50		M	1867 1868	M	18 00 18 00
	м	1867	L.	12 00		i .		L	12 00
	1	1	H	15 00 12 00		M	1869	H	18 00 12 00
	M	1868	H	15 00 12 00		M	1870	H	18 00 15 00
	м	1869	H	15 00	İ	1	l	L	12 00
	Mг	1870	H	12 00 15 00	ļ	M	1871	H	18 00 15 00
		1071	L	12 00		١		L	12 00
	M	1871	H	15 00 18 50		M	1872	H	18 00 15 00
	M	1872	H	15 00 13 50		١.,		L	12 00
	M	1873	H	15 00		M	1878	H	25 00 18 00
			M L	18 50 12 00		ł		ml	15 00 12 00
	M	1874	H	15 00		M	1874	H	25 00
			M L	13 50 12 00		ļ	1	M ml	18 00 16 00
	M	1875	н	18 50		۱		L	12 00
	м	1876	H	12 00 13 50		M	1875	H	25 00 18 00
	м	1877	L H	12 00		l		mal	16 50
		Ì	L	13 50 12 00		M	1876	H	12 00 25 00
	M	1878	H M	15 00 18 50			ĺ	M L	16 50 12 00
			L	12 00		м	1877	H	25 00
	M	1879	H	15 00 18 50		l		M L	17 00 12 00
	M	1880	H	15 00 18 50		M	1878	H	25 00
Massachusetts, .	M	1878	L M	12 00		i		M. m.l	16 50 15 00
	M	1879 1880	M	12 00 12 00		м	1879	L H	12 00 25 00
•	M	1883	H	16 50			1019	M	16 50
		l	M L	12 00 10 00		1		ml L	15 00 12 00
	M	1885	H	20 00 18 00		M	1880	H	25 00
		Ì	mh Ma	15 00		1		M mi	18 00 16 00
	1	ĺ	ml L	12 00 9 00		м	1885	L H	12 00 24 90
	M	1891	н	18 00			1000	M	18 50
		Į.	M rol	15 00 18 00		м	1888	H	10 50 19 50
Wishinsa		1004	L	12 00	011	_		L	18 00
Michigan,	M	1884	H	15 00 13 50	Ohio,	M	1860 1861	M	18 00 18 00
	м	1886	H	12 00 19 50		M	1862 1863	M	18 00
		1000	M	16 50		M	1864	M	18 00 18 00
	м	1890	H	12 00 23 08	1	M	1865	H	21 00 18 00
	_		mh	18 00		M	1866	H	21 00
			M ml	15 00 10 50		м	1867	H	18 00 21 00
Missouri,	м	1878	L M	7 50 15 00	1		l	L	18 00
minoodii,	M	1879	M	15 00	1	M	1868	H	21 00 18 00
New York	M	1880 1860	M	15 00 12 00	i	M	18 69 1870	M	18 00
	M	1861	M	12 00	1		1010	M	18 00 15 00
	M	1862 1863	M. M.	12 00 12 00		м	1871	H	9 00 18 00
	M	1864	M	18 00	1	1 -		M	15 00

Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Engineers (Fur- NITURE) — Con.					Engineers (Fur- NITURE) Con.				
United States - Con.					United States - Con.	l	ł	1	
Ohio,	M	1871	L	89 00	Wisconsin,	м	1871	M	\$ 10 50
эшо,	M	1872	H	18 00	vv івсодвіц,	M	1872	M	10 50
			M L	15 00 9 00		M	1873 1874	M	10 50 9 00
	M	1873	Ħ	18 00		M	1875	M	9 00
			M L	18 50 9 00		M	1876	H	18 00 9 00
	M	1874	H	18 00		M	1877	H	18 00
			M L	13 50 9 00		м	1878	L H	9 00 18 00
	м	1875	H	18 00		M	1919	L	78 00
			M	12 00		M	1879	H	18 00
	M	1876	H	10 50 18 00	1	м	1880	L H	10 50 18 00
	-	.0,0	M	12 00			1000	Î.	10 50
	м	1877	L L	10 50 18 00	Engineers (GLASS).				
		1011	H	12 00	1				
		1050	L	10 50	United States.		1000		47.00
	М	1878	H	18 00 12 00	California,	M	1886 1890	M	15 00 15 00
	ا ۔۔ ا		L	10 60	Kentucky, .	M	1880	M	18 00
	M	1879	H	18 00 12 00	Illinois,	M	1880 1850	M	18 90 12 00
			L	10 50	massachusetts, .	M	1851	M	12 00
	M	1880	Ĥ	18 00		W	1852	M	12 00
	M	1881	L M	10 50 18 50		MMM	1853 1854	M M	12 00 12 00
	M	1882	M	12 48		M	1855	M.	12 00
'ennay ivania,	M	1864 1865	M	12 00 12 00		M	1856 1857	M	12 00 12 00
	M	1866	M	12 00		M	1858	M	12 00
	M	1867	M	18 02 13 02		M	1859	M	12 00
	1	1868 1869	M	13 02 18 02		M	1860 1861	M	12 00 12 00
	M	1870	H	15 00		M	1862	M	12 00
	¥	1871	H	18 02 15 00		M	1863 1864	M	12 00 15 00
	-		L	13 02		M	1865	M	15 00
	M	1872	H L	15 00 13 02		M	1866 1867	M	15 00 15 00
	M	1873	H	15 00	}	M	1868	M	15 00
	м	1874	L.	18 02		M	1869	M	15 00
	, ma.	1014	H	16 00 18 02	Ì	M	1870 1871	M	15 00 15 00
	M	1875	H	15 00		M	1872	M	15 00
	M	1876	H	12 00 16 00		M M M M M M M M M M M M	1873 1874	M M	15 00 15 00
			L	12 00	ļ	M	1875	M	15 00
	M	1877	H L	15 00 12 00		M	1876 1877	M	15 00 15 00
	М	1878	Ĥ	15 00	ì	M	1878	M	15 00
	м	1879	H	12 00 15 00		M	1879 1880	M	15 00 15 00
	_	1019	M	12 00		, ma	İ	L	13 50
			mol	10 00	l .	M	1883	M	15 00
	M	1880	H	7 50 15 00	Missouri,	M	1891 1870	M M	15 00 7 02
			L M	12 00		M	1877	H	13 50
	M	1885 1888	H	15 00 16 02		м	1880	L H	10 50 12 00
	_	_	T.	12 00	i	_	l	L	9 00
Vinconsin,	M	1861 1863	M	9 00 10 50		M	1883	H	13 85
	M	1864	M	10 50			1	M L	11 54 9 23
	M	1865	M	10 50		M	1884	H	80 00
	M	1866 1868	M	10 50 10 50	i	l		M ml	22 00 13 84
	¥	1860	M	10 50	i			L L	11 00
	¥	1870	M	10 50		M	1885	H	13 92

OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Engineers (GLASS) — Con. United States - Con.					Engineers (GLASS) — Con. United States - Con.				
Missouri,	M	1885	mh	\$12 00 10 34	Pennsylvania,	M	1870	Ľ	\$12 00
	İ		M ml	9 00		M	1871	mb	18 00 16 50
	M	1886	H	8 00 12 00				M L	15 00 12 00
			M L	10 00 7 98		M	1872	mh	18 00 16 50
	M	1888	H	10 00 9 00			l	M L	15 00 12 00
New York,	M	1850 1851	M M M	8 10 8 10		M	1873	H	17 00 15 00
	M	1852 1858	M	8 10 8 10		M	1874	L H	12 00 17 00
	M	1864 1855	M	8 10 8 10				M L	15 00 12 00
	M	1856 1857	M	8 10 8 10		M	1875	H	17 00 15 00
	M	1858 1859	M	8 10 8 10		м	1876	L	12 00 16 00
	M	1860 1861	M M M M	8 10 8 10		-	10.0	M L	15 00 13 02
	M	1862 1866	M	8 82 12 00		M	1877	H	18 00 15 00
	M	1870 1876	M	10 50 8 10			l l	M	13 98 12 60
	M	1880	H	18 00 15 00			1050	L	7 98 15 00
			ml	12 00		M	1878	L	18 98
	M	1888	H	21 00		M	1819	M	16 00 15 00
		i	mh M	17 50 15 00		M	1880	L H	13 98 18 00
			ml L	12 00 9 00				mh M	16 00 13 50
Ohio,	M	1870 1877	M	15 00 12 00				mi L	11 10 9 00
	M	1878	H L M	12 00 8 00	United States (not specified),	M	1880	н	18 00
	M	1879 1880	H	12 00 14 00	West Virginia, .	M	1845	L M	13 50 7 50
			M L	12 00 9 00		M	1846 1847	M	7 50 7 50
	M	1882 1886	M M	12 54 9 96		M	1848 1849	M	7 50 7 50
Pennsylvania,	M	1851 1852	M	6 00 6 00		MM	1850 1857	M	9 00 10 50
	M	1853 1854	M	6 00 6 00		M M M	1858 1859	M	10 50 10 50
	M	1855 1857	M M M	6 00 8 00		M	1860 1861	M	10 50 10 50
	M	1858 1859	M	8 00 9 00		M	1862 1863	M	8 00 14 00
	M	1860 1861	l Mc	9 00		M M M	1864 1865	M	16 00
	M	1862	M	10 00		M	1866	M	18 00 18 00
	1	1863	L H	12 00 9 00		M	1867 1872	M M M	9 00 18 00
	M	1864	I. H	12 00 9 00		MMMMMM	1873 1874	M	18 00 15 00
	M	1865	H	15 00 12 00		M	1875 1876	M	15 00 15 00
	M	1866	H L	16 00 15 00		M	1877 1878	M M	15 00 15 00
	M	1867	H L	16 00 15 00		M	1879 1880	H	13 50 18 50
	M	1868	H L	18 00 15 00	Fanalan Countries		1	L	12 00
	M	1869	H L	17 00 15 00	Foreign Countries. Austria,	м	1885	M	4 80
	M	1870	H	17 00 15 00	Belgium,	M	1882	H	5 77 4 62
	<u> </u>		1		1	<u> </u>	l	<u> </u>	

	GIGE	DEL	, W.	REVEL	WAGES — COLLI	пис	u.		
Occupations, States, and Coun- tries.	8ex	Years	Grade	Weckly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Engineers (GLASS)—Con. Foreign Countries —Con. Rugiand, France, Germany,	M M M	1882 1881 1892	M M M	\$9 60 4 20 6 59	Engineers (Machines and Machines and Machines) — Con. United States - Con. Indiana,	M	1874 1875	M L H	\$15 00 9 00 81 50
Engineers (Ma- chines and Ma- chinery).						M	1876	M L H M	15 00 9 00 28 80 15 00
United States.					[M	1877	H	9 00 13 80
California, Connecticut,	M	1886 1870	M M	18 00 18 00		м	1878	L	9 00 13 80
	M	1871 1872	M	18 00 18 00		м	1879	Î. H	9 00 19 80
	M M M M M M	1878 1874 1875	M M M	18 00 18 00 18 00		M	1880	M L H	13 50 9 00 26 10
	N N N N N N N N N N	1876 1877 1878	M	18 00 18 00 18 00		M	1886	L H	13 50 9 00 12 60
	M	1879 1880	M	18 00 18 00	Kansas,	М	1858	L M	9 00 10 50
Illinois,	M	1887 1872	M	16 23 10 00		M	1865 1866	M	12 00 12 00
	M	1873	H	18 00 9 00		M	1867 1868	M	12 00 12 00
	M	1874	H	18 00 10 00		l M	1869 1870	M	15 00 16 50
	M	1875	H	18 00 10 00		M M M	1871 1872	M	16 50 16 50
	M	1876	H	18 00 10 00		M	1878	M	16 50
	M	1877	H	18 00		M	1875	M	9 00
	м	1878	H	10 00 18 00		M M	1876 1877	M M	10 50 10 50
	M	1879	H	9 00 18 00		M	1878 1879	M	10 50 10 50
	M	1880	L H	9 00 18 00	Kentucky,	M	1880 1876	M	10 50 18 50
	M	1881	L M	9 00		M	1877 1878	M	18 50 13 60
Indiana,	M	1861	Ĥ	13 50 10 80		M	1879 1880	M	15 00 15 00
	M	1862	Ħ	16 50	Maine,	M	1886	M	10 50
	M	1863	H	12 00 18 00	Massachusetts, .	M	1871 1872	M M	15 00 15 00
	M	1864	H	12 00 21 00		M M	1878 1874	M	15 00 16 50
	M	1865	L H	14 40 21 00		M	1875	H	18 00 16 5 0
	M	1866	L H	14 40 21 00		M	1876	H L	18 00 16 50
	M	1867	L H	14 40 21 00		M	1877	H	18 00 16 50
	M	1868	L H	15 00 21 00		M	1878	H L	18 00 16 50
			L	15 00		M	1879	н	16 50
	M	1869	H L	21 00 15 00		м	1880	L M	15 00 15 00
	M	1870	H L	21 00 15 00		M	1883	H M	16 50 18 50
	M	1871	H M L	21 00 15 00 9 00		M	1885	I. H mh	12 00 18 00 15 00
	M	1872	H	36 00 15 00				Mml	12 00 9 00
	M	1873	L H M	9 00 32 40 15 00		M M	1886 1891	L M H	6 00 15 00 21 00
	м	1874	ĥ	7 50 82 40		"		mb M	18 00 15 00
	匚	1	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	

Occupations,					OCCUPATIONS,			Ī	
STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	STATES, AND COUNTRIES.	8ex	Years	Grade	Weekly Wages
Engineers (Machines and Machinery) — Con.					Engineers (Machines and Machinery) — Con.				
United States - Con.					United States - Con.	1	1		
Massachusetts, .	M	1891	ml	\$12 00	New Hampshire, .	M	1871	M	\$ 9 00
Michigan,	N MANAMANAMANAMANAMANAMANAMANAMANAMANAMA	1854 1856 1856 1857 1858 1869 1860 1861 1862 1863 1864 1866 1866 1877 1878 1871 1872 1873 1875 1878 1879 1878 1879 1879 1879 1879 1879	нтинимимимимимимимимимими	9 00 7 50 7 50 7 50 7 50 7 50 8 25 9 00 10 50 10 50 10 50 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 13 50 10 50 10 50 10 50 11 00 12 00 12 00 12 00 12 00 13 50 14 10 10 80 10 80 10	New Jersey, New York,	WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	1872 1873 1874 1875 1876 1877 1878 1889 1882 1884 1884 1845 1840 1841 1842 1843 1844 1845 1848 1848 1848 1848 1848 1848	КККККККККТК ОЧКТНТКПТККККККККК	9 00 9 00 9 30 9 30 9 30 9 30 9 30 9 30
Missouri,		1857 1858 1859 1860 1861 1862 1863 1864 1865 1867 1868 1870 1871 1872 1873 1874	mb M M M M M M M M M M M M M M M M M M M	15 00 12 57 9 00 7 50 7 50 7 50 7 50 7 50 9 00 10 50 10 50 10 50 12 00 12 00 12 00 10 50		M M M M M M	1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861	HIHIHIHIHIHIHIHIMHIHMI	9 00 5 25 9 00 6 00 9 00 7 00 9 00 7 00 9 00 7 00 9 00 7 50 9 00 7 50 9 00 7 50 9 00 7 50 9 00 7 50 9 00 7 50 9 00 7 50 9 00 7 00 9 00 7 00 9 00 7 00 9 00 7 00 9 00 7 00 9 00 7 00 9 00 7 00 9 00 7 00 9 00 7 00 9 00 7 00 9 00 7 00 9 00 7 00 9 00 7 00 9 00 7 00 9 00 7 00 9 00 7 00 9 00 9
New Hampshire, .	M M M M M M M M M M	1875 1876 1877 1878 1879 1880 1890 1864 1865 1866 1867 1868	M M M M M M M M M M	10 50 10 50 10 50 12 00 12 00 13 50 16 50 10 02 10 02 10 02 10 02 10 02 9 00		M M M M M	1862 1863 1864 1865 1866 1867	HMLHLHLHLHLHLHLHLH	12 00 9 00 7 00 12 00 9 00 7 00 12 00 9 00 12 00 12 00 12 00 12 00 12 00

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Engineers (Machines and Machines) — Con.					Engineers (Ma- chines and Ma- chinery) — Con.				
United States - Con.		ł			United States - Con.	1			
New York,	M	1867	M L	\$10 50 9 00	Ohio,	M	1873	H	\$15 00 8 10
	M	1868	H	12 00		M	1874	H	15 00
		İ	M L	10 50 9 00		M	1875	H	15 00
	M	1869	H	12 00 10 50		м	1876	H	8 40 15 00
			L	9 00			i	L	8 40
	М	1870	H	12 00 10 50		M	1877	H	15 00 8 40
	м	1871	L H	9 00 10 50		M	1878	H	15 00 8 40
			L	9 00		M	1879	H	15 00
	М	1872	H L	10 50 9 00			1	M	12 00 10 50
	M	1873	H	18 50			1880	L	8 40
	м	1874	H	10 50 12 00		M	1990	H mh	16 50 18 50
	м	1875	L H	9 00 12 00				M ml	12 00 9 00
	_	10.0	M	9 00				L	7 50
	M	1876	L H	6 00 12 00		М	1831	H	15 00 12 90
			M L	9 00		M	1882	H	12 00 10 50
	M	1877	H	10 80		M	1884	H	16 50
	1		M L	9 00				mh M	13 50 11 25
	M	1878	H	10 80		1		ml	8 50
	Į į		M L	9 00 6 00		м	1885	L H	6 00 15 00
	M	1879	H M	10 85 7 50	1			mh M	12 00 10 50
	١	i	L	6 00				ml	8 50
	M	1880	H	18 50 11 25	Pennsylvania,	м	1860	L H	6 00 15 00
	1	1	ml	7 50	,,			L	12 60
	м	1886	L M	6 00 19 02		M	1853	H	15 00 12 60
	M	1888	H mb	82 50 27 00		M	1857	H	15 00 12 60
	l	l	M	21 00		M	1860	H	15 00
	1	İ	ml L	15 00 9 00	1	M	1863	H	12 00 15 00
Obdo,	M	1862	H	15 00 3 84		м	1864	L	12 00 9 00
	M	1863	H	15 00		M	1866	M	9 00
	M	1864	L H	8 84 15 00		M	1866 1867	M	9 00 15 00
	M	1866	Î. H	8 84				M	12 00 9 00
			L	8 84		м	1868	L M	9 00
	×	1866	H L	15 00 8 84	1	M	1869	H	10 50 9 00
	M	1867	H	15 00		M	1870	H	10 50
	M	1868	L H	8 84 15 00		м	1871	H	8 40 24 00
	M	1869	L	8 84 15 00		_		mb	18 00 15 00
	1		L	3 84		1	l	M ml	11 00
	M	1870	H	15 00 7 50		M	1872	H	9 00 14 25
	М	1871	H	15 00		_		M	12 00
	M	1872	H	7 00 21 00	1	M	1873	L H	7 50 15 06
	1		mh M	16 00 15 00				M L	12 00 7 50
			mol	9 00		M	1874	H	13 62
	1	1	L	7 50				M	11 40

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	8ex	Years	Grade	Weekly Wages
Engineers (Ma- chines and Ma- chinery) — Con.					Engineers (MET- ALS AND METAL- LIC GOODS) - Con.				
United States - Con. Pennsylvania,	м	1874	_		United States - Con.			١. ١	
renusyivania,	M	1875	L H	\$7 50 10 80	Connecticut,	M	1887	ml L	\$15 23 12 49
	M	1876	L	7 50 15 00	Delaware,	M	1886	Ä	10 80
	_	10.0	mh	12 00	Georgia,	M	1871 1872	M M M	17 50 17 50
	İ		M L	10 50 8 40		M M M M	1873 1877	M	17 50 7 00
	M	1877	H	10 80		M	1878	M	7 00
	1		M L	7 50		M	1879 1880	M	7 00 10 50
	M	1878	H	10 80 9 00	Illinois,	м	1873	L	7 00 19 20
	M	1879	H	15 00	1111110111,	M	1874	M	19 50
	1	1	M ml	12 00 10 80		M	1875 1876	M	18 00 18 00
		1000	L	9 60		M	1877	H	19 90
	M	1880	H	15 00 12 00		l M	1878	L M	18 00 18 00
	м	1888	L	10 50 21 98		M	1879 1880	M	18 00 21 00
	_	1000	mh	18 00		-	1	H	18 24
	1		M ml	15 00 12 00		M	1885 1886	M	16 50 16 80
	1		L	9 00	 	-		L	9 90
Foreign Countries.		i			Indiana,	M	1868 1869	M	12 00 12 00
Great Britain,	M	1883	H	9 73		M	1870	M	16 50
	1		mh M	8 52 7 30		M	1871 1872	M	16 50 16 50
Russia,	M	1880	L H	4 87 28 85		M	1873 1874	M	16 50 16 50
	"	1.000	î.	17 31		M	1875	M	16 50
Engineers (MET-		l				M	1876 1877	M	15 00 15 00
Engineers (MET- ALS AND METAL- LIC GOODS).		1	1	1		M	1878	M	15 00
United States.				1		M	1879 1880	M	15 00 15 00
Alabama	M	1872	M	12 25		M	1886	H	15 00 10 50
	M	1878	M	12 25	Kentucky, .	M	1870	M	15 00
	M	1874 1875	M	12 25 12 25		M	1871	H	42 00 15 00
	M	1876	M	10 50		١.,		L	10 50
	M	1877 1878	M	10 50 10 50		M	1872	H	42 00 15 00
	M	1879 1880	M	9 45 9 45		M	1873	L H	10 50 42 00
G	M	1886	M	12 00		"	1019	M	15 00
Connecticut,	M	1860 1867	M	19 57 15 00		M	1874	L H	12 00 42 00
	M	1868 1869	M	15 00		-		L	15 00
	M	1870	M	15 00 18 00		M	1875	H	42 00 12 50
	M	1871 1872	M	18 00 18 00		M	1876	L H	10 50
	M	1873	M	18 00		_	1010	M	36 75 13 50
	M	1874	H	21 00 18 00		M	1877	H	10 50 17 50
	M	1875 1876	M	21 00 21 00		_		M	13 50
	M	1877	M	20 10				m) L	10 50 8 75
	M	1878 1879	M	20 10 18 00	1	M	1878	H	17 50 18 50
			L	16 50		1		ml	12 25
	M	1880	H	18 00 16 50		M	1879	L H	10 50 15 75
	M	1887	Н	27 51		-		M	18 50
	i	l	mh Ma	28 00 19 01	i .	M	1880	L H	11 56 18 90

GRADED WEEKLY WAGES - Continued.

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weckly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Engineers (MET- ALS AND METAL- LIC GOODS) - Con.					Engineers (MET- ALS AND METAL- LIC GOODS) - Con.				
United States - Con.	1				United States - Con.	ł	İ		ì
Kentucky,	M	1880	mh	\$17 50	Michigan,	M	1875	H	\$17 50
	м	1886	L H L	14 00 11 67 13 50 9 00		M	1876 1877	L H L H	8 00 15 75 8 00 14 00
Maryland,	M	1867 1861 1863	M M H	11 62 6 00 10 50		M	1878	H	8 00 10 50
	M	1864	L H	7 50 12 25		M	1879	L H L	12 25 10 50
	м	1865	L	10 00 11 50		M	1880	H	14 00 10 50
	M	1870 1871 1872	M M H	10 50 15 00 18 00		M	1884	L H M ml	19 50 15 00 12 00
	M	1873	L H	10 50 16 00		M	1889	H	10 50 23 08
	М	1874	H L	10 50 12 50 9 10				mh M ml	19 62 16 15 18 15
	M	1875 1876	M H L	10 50 12 00 9 45		M	1891	H	9 46 22 50 15 00
	M	1878 1879	M	7 70 8 40		ĺ	١.	mi L	12 00 9 00
	M	1880	H	11 00 9 10	Missouri,	M	1854 1856	M	10 00 12 25
• • ··	M	1886	H	15 42 8 70		M	1857 1858	M	12 25 12 25
Massachusetts, .	M	1864 1865	H	10 50 18 00		M	1859 1864	M	14 00 10 50
	M	1866	L	10 50 9 96		M	1865	M M M	10 50
	M	1867	M	10 50		M	1866 1867	M	14 00
	M	1868 1869	M	15 00 13 50		M	1868 1869	W	17 50 17 50
	M	1870	H	18 00		M	1870	H M	17 50 17 50
	M	1871	L	13 50 15 00		M	1871	H	22 50 17 50
	M	1872	M	15 90		1		L	14 40
	M	1873 1874	M	15 90 15 90		M	1872	H	22 50 17 50
	M	1875	M	15 90		١		L	15 00
	M M	1876 1877	M	15 90 15 90		M	1878	H	22 86 14 00
	M	1878	M	15 90		M	1874	H	22 50
	M	1879 1880	M	15 90 15 90	1	l		M L	17 50 18 50
	M	1888	L	14 52	1	M	1875	H	22 50
	*	1555	H mh	16 50 15 00		M	1876	H	12 75 21 75
			M ml	13 50 12 00		M	1877	L	18 20 21 00
			L	9 60	1	-		L	12 00
	M	1885	mh	21 00 18 00	ļ.	M	1878	H	18 00 12 00
			Mml	14 40 11 00	İ	M	1879	H	18 36 11 25
	١,,	,,,,,	L	7 50	1	M	1880	H	21 12
	M	1891	H mh	25 00 18 00		M	1886	H	10 89 12 00
	1	1	Mml	17 00 18 50		M	1890	L	8 10 24 00
Michigan,	м	1872	L	9 00 12 00	New Jersey,	M	1863	L M	21 00 8 75
arman,	M	1873	H	21 00	Tien nersel,	M	1864	M	11 34
	M	1874	L H L	12 00 17 50 12 00		M M M	1865 1866	M	18 09 10 50 14 00
			L .	12 00		M	1867		14 00
	<u></u>				'	_			

Occupations,				Weekly	Occupations,				Weckly
STATES, AND COUNTRIES.	Sex	Years	Grade	Wages	STATES, AND COUNTRIES.	Sex	Years	Grade	Wages
Engineers (METALS AND METALLIC GOODS) - Con.					Engineers (MET- ALS AND METAL- LIC GOODS) - Con.				
United States - Con.					United States - Con.				
New Jersey,	M M M	1868 1869 1870 1871	M M M M	\$12 25 12 25 12 60 12 90	New York,	M	1870 1871	H mh M	\$9 00 21 00 18 75 17 50
	M	1872 1873	M H L	12 95 18 30 12 00 12 25		М	1872	L H M	9 00 24 50 21 00
	M M	1874 1875 1876	M M H L	12 25 11 55 11 55 10 20		м	1873	H mb M	9 00 24 50 23 08 21 00
	M	1877 1878	H L H	11 22 9 59 11 22		м	1874	L H M	15 00 21 25 17 50
	м	1879	L H L	9 59 11 22 7 84		м	1875	L H mh	13 86 21 25 17 50
	M	1880 1882	M H M L	11 55 15 00 13 50 12 00		м	1876	M mi L H	18 86 11 25 9 00 19 63
	M	1883	H M ml	15 00 13 50 12 00		м	1877	M L H	15 75 12 18 19 25
	M	1884	L H mb M ml	11 00 18 00 15 75 12 00 10 40		M	1878	M ml L H mh	15 75 14 00 11 46 15 76 14 00
	м	1885	L H L	9 00 15 00 12 00		м	1879	M L H	12 50 9 96 15 75
	M	1886 1888	H L H	12 00 10 50 17 00				mh M L	14 00 12 50 9 96
			M ml L	14 70 12 00 11 00		M	1880	H M L	14 40 12 00 10 50
New York,	M	1850 1851 1852	H L M M	10 50 7 50 10 00 10 00		M	1884 1886	H mb	12 30 19 80 18 00
	M M M	1853 1854 1855	M M H L	11 25 15 00 15 00 7 50		М	1887 1888	M ml L M H	15 00 12 00 9 96 12 00 30 00
	M M M	1856 1857 1858	M M H L	15 00 17 50 13 75 6 75		_	1000	mh M ml	28 84 19 23 13 84 9 00
	M M	1859 1860	M H M	15 00 15 00 7 50	Ohio,	M	1860 1861 1862	M	7 50 7 50 7 50
•	M M M	1861 1862 1863	L M M M	6 00 14 38 15 00 17 50		M	1863 1864 1865	M H L	9 00 15 75 15 75 14 25
	M	1864 1865	M H M	25 00 25 00 11 70		M	1866 1867	H L	16 50 18 00 16 50
	M	1866 1867	L M M	9 90 18 75 18 75		M	1868	H M L	21 00 15 75 12 00
	M	1868 1869 1870	H	18 75 18 75 21 00		M	1869	H M H	21 00 15 75 12 00
			mh M ml	18 75 17 50 11 70		M	1870	H M ml	24 50 16 63 14 00
			<u> </u>		<u> </u>	<u> </u>		·	<u> </u>

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OCCUPATIONS, STATES, AND COUNTRIES.	8ex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Engineers (MRT- ALS AND METAL- LIC GOODS) - Con. United States - Con.					Engineers (MET- ALS AND METAL- LIC GOODS) - Con.				
			_		United States - Con.				
Ohio,	M	1870 1871	LHMBL LHMBL	\$10 50 24 50 16 63 14 00 10 50	Pennsylvania,	M M M	1857 1858 1859 1860	M M H M	\$9 78 8 58 9 00 9 00 7 91
	М	1872	H M ml	24 50 17 85 14 00	•	м	1861	L H M	6 00 9 00 7 85
	M	1878	L H M ml	9 45 24 50 17 50 14 00		М	1862	L H L	6 00 9 00 6 00
	м	1874	L H mh	10 50 24 50 17 50		M	1863	H M ml L	16 98 12 96 11 16 9 80
	ll		M. mol	16 45 14 00		M	1864	H L	16 98 12 84
	M	1875	L H M	9 45 24 50 15 75 12 60		M	1865 1866	H M L H	24 00 15 00 12 60 24 00
	M	1876	L H mh	9 46 22 75 15 75		M	1867	M L H	14 00 12 00 24 00
	м	1877	M ml L H	14 00 12 60 8 05 80 00		M	1868	M L H M	16 50 18 20 22 50 16 15
	_	1011	mh M	25 00 18 00 12 00		м	1869	m L H	16 15 15 00 14 00 22 50
	М	1878	L H mh	6 00 19 39 17 50 14 00				M ml L	15 42 14 00 12 91
	м	1879	ml L H	11 90 7 00 21 93		M	1870	H M ml L	22 50 17 50 15 58 14 00
			mh M ml L	17 50 14 00 11 90 7 00		M	1871	H M ml L	22 50 17 50 15 90 14 00
	M	1880	H mh M	21 51 18 00 14 00		М	1872	H M ml	22 50 18 80 17 10
•	M	1881	ml L H mh	11 00 7 00 22 10 19 50		М	1878	L H mh M	15 00 23 00 19 67 16 94
	M	1882	M ml L H	15 50 12 90 9 00		M	1874	ml L H	15 00 12 00 23 00
	. M.	1002	mh M mì	13 50 11 40 9 00				mh M ml L	18 90 15 00 12 00 9 00
:	M	1884	L H mh	7 50 18 00 15 00		M	1875	H M ml	18 00 14 25 12 60
	M	1886	M ml L H	13 50 11 00 9 00 21 00		M	1876	H mh M	10 80 86 00 24 00 19 20
			mh M ml L	17 16 13 80 10 02		м	1877	ml L H	12 72 7 02 18 00
Pennsylvania,	M	1855 1856	M M	6 86 8 58 9 78				mh M ml	15 00 12 00 10 50

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Engineers (MET- ALS AND METAL- LIC GOODS) - Con. United States - Con.					Engineers (MET- ALS AND METAL- LIC GOODS) - Con.	-			
			_		United States - Con.				
Pennsylvania,	M	1877 1878	H	87 50 18 00	West Virginia, .	M	1874	M ml	\$18 00 16 50
			mh M	15 00 11 40		M	1875	L H	10 50 23 46
	M	1879	L H	8 40 24 00		Ι-		mh	18 00 16 50
			mb	18 00				M L	9 90
			M ml	12 00		M	1876	H	23 46 18 00
	M	1880	L H	8 75 19 25		M	1877	L H	16 50 21 00
	_		mh	15 00		-	1011	M	18 00
			M ml	12 00 8 40	İ	м	1878	L H	16 50 21 00
	M	1881	L H	5 22 15 00				M	18 00 15 00
	_		M	12 18	ĺ			mi L	12 95
	M	1882	L H	10 14 15 96	İ	M	1879	H	21 00 18 00
			m.h Ma	14 28 12 18	i		1	mi L	15 00 14 00
	м	1883	L	10 14		M	1880	H	21 00
		1000	mp H	15 24 18 20				mh Ma	18 00 15 00
			M ml	11 34 9 36		м	1886	L M	9 00 15 00
	м	1884	L	8 22	Wisconsin,	M	1880	M	10 50
		1004	H mh	18 00 15 00	Foundam Commentes				
			M. ml	11 70 8 32	Foreign Countries.	м	1885	м	4 50
	м	1886	L	5 78	Belgium,	M	1886	M	4 80
	M.	1000	H	34 50 21 00	England,	M	1855	H L	7 20 5 04
			ml L	14 40 7 80		M	1856	H L	6 96 4 80
	M	1888	H	27 00		M	1857	H	6 96
			mh M	24 00 18 04	į	M	1858	H	4 90 6 96
			ml L	18 08 7 74		м	1859	L H	4 56 6 96
Rhode Island,	M	1888	H L	21 00 8 20		M		L	4 50
Cennessee,	M	1871	M	18 00			1860	H L	4 50
	M	1872 1873	M	21 00 21 00		M	1861	H L	6 96 4 56
	M	1874 1875	M M	13 50 12 90		M	1862	Ĥ	6 84
	M	1876	M	12 90		M	1863	Ĥ	7 20
	M	1877 1878	M M	12 90 12 90				M L	5 04 3 36
	M	1879 1880	M M	10 80 12 00		M	1866	H	8 64 5 76
	M	1886	H	13 80		M	1868	H	6 24
			mh M	12 60 10 80		М	1871	I. M	4 80 7 20
Virginia,	M	1877	L M	8 10 10 50		M	1877	H	10 08
	M I	1878	M	10 50		М	1878	H	8 25
	M M	1879 1886	H	10 50 12 00		м	1880	L	7 22 6 18
			M	10 08 9 00		M	1883 1885	H	7 92 8 70
West Virginia, .	M	1871	M	9 00		1		L	7 82
	M	1872 1873	M	9 00 24 96	Germany,	M	1886 1885	M H	8 70 5 00
			M	18 00 9 90		M	1880	Ľ M	8 70
	M	1874	H	24 96	Great Britain,	M	1883	H	6 23 10 22

Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	Occupations, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Engineers (MET- ALS AND METAL- LIC GOODS) - Con. Foreign Countries Con.					Engravers (GLASS) — Con. United States - Con.				
Great Britain,	м	1883	M	\$8 27	New Jersey,	М	1885	L	\$12 00
	м	1886	L H	6 81 7 20		M	1886	H	25 00 21 60
Ireland,	M M M M	1855 1856 1857 1858	H M T	5 04 6 24 6 24 6 72 14 40	New York,	M M M	1850 1851 1852 1858	N N N	20 00 12 00 12 00 12 00 12 00
Scotland,	KKKKKKKKK	1860 1863 1840 1850 1857 1858 1860 1861	M M M M M M M M M M M M M M M M M M M	8 64 7 20 6 48 5 28 6 00 7 20 5 28 6 48 6 00		M W W W W W W W W W W W W W W W W W W W	1854 1855 1856 1857 1868 1859 1860 1861 1862	MMWMKKK	12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 16 50
Switzerland,	M	1871 1874 1883 1884	M H L M	5 52 6 84 6 72 5 04 5 80		M M M M	1866 1870 1876 1880 1888	H M M	24 00 22 50 19 50 24 00 18 00 18 00
Engravers								ml L	10 00 9 00
(GLASS).					Ohio,	M	1877 1878	M	18 00 18 00
United States. Kentucky,	м	1880	м	18 00		M	1879 1880	M	18 00 21 00
Massachusetts,	N M M M M M M M M M M M M M M M M M M M	1850 1851 1852 1853 1854 1856 1856 1856 1859 1860 1961 1862 1863 1864 1866 1867 1868 1869 1870 1870 1871 1872 1873 1874 1875 1875	M M M M M M M M M M M M M M M M M M M	12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 13 00 14 00 16 50 16 50 16 50 16 50 16 50 16 50 16 50 16 50	Pennsylvania,	M M M M M M M M M M M M M M M M M M M	1882 1886 1866 1867 1868 1879 1870 1872 1873 1874 1875 1877 1878 1877	M LM M M M M M M M M M M M M M M M M M	18 00 10 50 116 36 18 30 22 50 24 00 24 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 15 00 16 00 17 00 18 00 18 00 19 00 19 00 19 00 19 00 10 00
New Jersey,	M M M M M	1878 1879 1880 1883 1891 1880 1883 1885	M H M M M M M M M	16 50 16 50 18 00 15 00 21 00 15 00 15 00 20 00 28 84 23 07 20 00 18 50	West Virginia,	M M M M M M M	1881 1882 1883 1884 1886 1888	M M M H mh L M L M L	16 20 16 20 16 28 10 92 24 00 21 00 15 00 13 98 10 50 10 50

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	 G ra de 	Weekly Wages
Engravers (GLASS) — Con.					Engravers (Woon) — Con.				
Foreign Countries.					United States - Con.		!	i	
Bohemia	M	1885	н	\$6 20	Indiana	. M	1881	н	\$30 00
7013			L	4 60		_		M	18 00
England, Scotland,	M	1883 1883	M M	9 60 8 40	Massachusetts, .	М	1883	L H M	12 00 50 00 22 00
Engravers (MET-						M	1885	L H mh	9 00 27 00 20 00
United States.	1							M	15 00
California,	M	1886	H L	80 00 15 00	ļ	1	ł	ml L	11 85 6 00
	M	1888	H	80 00		F		M	16 00
Connecticut	M	1887	L M	15 00 18 13	Michigan,	M	1891 1886	M	12 00 20 00
	F	1001	H	7 04	michigan,		1000	M	18 00
Massachusetts	M	1885	H	8 60 23 07	Missouri,	M	1882	L M	14 00 22 00
	-	1000	mh	18 00	1	M	1887	M	20 00
	1		M ml	15 00 10 50	New Jersey,	M	1883	H	46 00 25 00
	l_		L	6 84				ml	12 00
	F	1891	H	6 84 28 00		F		H	8 00
	_		mh	24 00		1	1004	L	5 00
			M	18 00 15 00	New York,	M	1886 1884	M	33 12 16 00
	F		L	10 00		M	1888	H	60 00
Missouri,	M	1882	H	10 00 21 00		1		m h M	40 00 32 40
	ł		M	18 00 8 00				ml	18 00 4 50
New York,	М	1888	H	30 00	Ohio,	м	1878	H	4 50 21 00
			mh M	24 00 20 00	•	м	1880	Ļ	12 00 16 50
	1		ml	15 00		M		H	8 40
Ohio,	M	1880	L H	10 00 12 00	Wisconsin,	M	1887 1888	M	21 00 9 90
•		1	L	6 60	Wisconsid,	, m	1000	, xa .	3 50
Pennsylvania,	M	1877 1886	M M	27 00 19 98	Foreign Countries.		ŀ		
Rhode Island,	M	1888	M	15 00	Australia,	M	1889	H	14 40
Wisconsin,	M	1888	M	15 00	Austria,	м	1884	L M	12 00 4 77
Foreign Countries.				!	Belgium,	M	1884	M	6 42
Australia,	M	1889	н	19 20		M	1885 1888	M	11 58
•	_	Į.	L	14 40	Canada,	M	1888	M	15 00
Bohemia, England,	M	1885 1857	M	2 52 7 52	Denmark,	M	1884 1888	M	8 00
Great Britain,	M	1883	H	9 78	England,	M	1839	M	10 08
			M L	8 52 6 83		M	1849 1859	M	7 20 7 20
Engravers (Wood).						M	1868 1878	M	8 70 9 60
United States.			l			M	1883	M	8 40
California,	M	1885	н	18 00	England and Wales,	M	1884 1884	M	8 50 8 38
	j	i	L	12 00		M	1888	M	8 38
	M	1888	H	20 00 :	France,	M	1884	H	8 75 7 35
	1	İ	ml	15 00		M	1885	M	12 45
Connecticut,	M	1887	L M	12 00 24 82	Germany,	M	1888 1884	M	7 85 5 12
Illinois,	M	1879	H	22 00	Germany,	M	1885	H	6 87
			mh M	20 00 18 00		M	1888	L M	8 51 5 12
		1	ml	15 00	Hawaiian Islands, .	M	1888	M	19 00
	M	1884	L M	12 00 24 00	Holland,	M	1884 1888	M	8 00 8 27
	M	1888	M	24 00	Italy,	M	1884	M	6 60

OCCUPATIONS, STATES, AND COUN-	8ex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN-	Sex	Years	Grade	Weekly Wages
Engravers (Wood) — Con. Foreign Countries					Feeders (METALS AND METALLIC GOODS) — Con.				
-Con.		l			United States - Con.				
Italy,	M	1888	M	\$6 60 5 00	New Jersey,	M	1886	H	\$8 00 8 00
Prussia,	M M M	1882 1884 1885	M	7 14 6 87 6 66	New York,	M M M	1288 1870 1871	M M M	8 00 8 08 7 90
Russia,	M	1884	M	4 66		M	1872	M	7 47
Scotland,	M	1888 1884	M M	7 29 6 35		M M M	1873 1874	M	8 06 7 51
Dwitzeriand,	M	1885	M	6 35	1	M	1875	l Ma	7 44
		İ			1.	M	1876 1877	M	6 72 6 06
Examiners (Clothing).	ļ				ľ	M	1878 1879	M	5 91 6 20
United States.		l		l i		M	1886	M	18 00
Illinois,	M	1882	M	15 00		M	1888	H	12 00 9 00
·	M	1883 1884	M	15 00 15 00		F		H	4 50
	M	1885	M	15 00	Ohio,	м	1886	H	8 00 14 16
Maine,	M F	1886 1888	M	15 00 5 90	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			L	12 80
Massachusetts,	M	1883	M	16 00		M	1887	H	12 00 9 00
	M	1885	H mh	18 00 16 50				ml	7 50
		ł	M	14 00	Pennsylvania,	м	1871	L	6 00 9 86
	F		H	11 70 6 25		M	1872	M	10 32 9 36
	-		L	5 00		M	1878 1874	M	11 70
	M	1891	H mh	80 00 25 00		M	1875	M	10 20 10 20
	l		M	20 00		M	1876 1877	H	12 00
			ml L	12 00		м	1878	L H	10 56 12 72
	F		H	7 00		M.	1919	M	10 20
Missouri,	М	1891	L M	8 88				ml L	7 50 6 00
New Jersey,	F	1888	H	6 48 5 00		M	1879	H	12 00
New York,	M	1888	й	85 00				mh M	10 20 8 22
•		İ	mh M	80 00 18 00			1	mol	6 00
	l .		mi	12 00		м	1880	H	4 50 10 20
	F	ļ.	L H	6 50 14 00		_	1000	M	7 62
	•	İ	mh	9 00		м	1881	H	6 60 12 00
		ļ	M ml	7 00 5 00				L	7 02
		l	L	4 00		M	1882	H	12 00 7 02
Feeders (METALS		l	1			M	1883	H	12 00 6 78
AND METALLIC GOODS).		1			:	M	1884	H	11 10
United States.			1			м	1885	H	6 00 12 60
Illinois,	M	1886	H	13 50		1		L	9 90
Massachusetts	м	1882	L M	12 00 13 20	West Virginia, .	M	1873 1874	M	10 56 9 86
energy and the second second	F		M	6 96		M	1875	M	9 30
	M	1885	H	9 00 7 50		M M	1876 1877	M	9 30 9 30
	-		L	4 50		M	1878	M	9 80
	F		H	9 00 6 00		M	1879 1880	M	9 30 9 30
		1004	L	8 00	Wisconsin,	M	1886	H	12 00
	F	1886	M	13 50 7 20	Feeders (PRESS).			L	10 50
Michigan,	M	1883	H	6 00	United States.]	
New Jersey,	M	1884	L H	4 50 8 00	California,	F	1888	н	7 00
••	м	1885	L M	4 00 7 00	Connecticut,	F	1887	L	4 00 6 27
		1000	_	1 00	Connecticut,	P	1001	i =	0 21

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OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Feeders (PRESS)					Feeders (PRESS)	Γ-			
— Con. United States - Con.					—Con.	ļ			
District of Colum-					United States - Con. New York,	м	1888	mi	\$ 9 00
bia,	F	1885	Ħ	\$9 00 8 00	New IOIL,	l	1000	L	6 00
Illinois,	M	1881	L M	7 50		F		H L	9 00 8 00
	M	1882	H	8 00 7 00	Ohio,	M	1878	H	8 66 7 00
	M	1888	L H	6 00 8 00		F		L	6 00 6 85
	M	1884	Î. H	6 00 9 00				M	5 00
			L	8 00	Į	M	1882	L H	4 00 9 00
	M	1885	H	9 00 8 00	1			M	6 78 4 50
	M	1886	H	9 00 8 00		F		L M	3 37 5 82
Massachusetts, .	F	1840	H	6 00 5 00		M	1887	H	18 00
	F	1845	L M	8 50				mh M	12 00 9 96
	M	1883	H M	10 00 8 00				ml L	6 96 4 50
	F		L H	5 00 7 00		F		H	6 90 5 10
	M	1885	Î. H	6 00 15 00	D			L	4 00
	M	1999	mh	11 00	Pennsylvania, Wisconsin,	M M	1873 1888	M	6 00 6 42
		}	M ml	9 00 6 00	W			L	3 06
	F	ļ	L H	8 00 8 00	Foreign Countries. Austria,	F	1885	M	1 60
	•		mh M	7 00	Belgium,	M	1885	M	7 00
		i	ml	4 50	France,	M F	1885	M M	2 03 2 03
	м	1891	H	8 50 15 00	Germany,	M	1885	M	2 76 2 00
			mh M	12 00 9 00	Great Britain,	M	1883	M	2 92
			ml	7 00	*****	-		L	1 09
	F		H	4 00 7 50	Holland,	F	1885 1878	M	2 40 8 00
			M L	6 00 3 00	Switzerland,	M	1884 1885	M	3 86 3 86
Michigan,	M	1884	H	4 00 3 00	Filling Carriers	-	-000	_	000
Minnesota, Missouri,	M	1890 1887	M	4 50	(COTTON, WOOL- LEN, AND OTHER				
M1680UI),	М	1887	H	8 00	TEXTILES).				
	м	1890	L M	6 00 7 50	United States.	1			
New Jersey	F	1886	M	5 64 5 00	Connecticut,	M	1874	H mb	11 28 9 00
New Jersey, New York,	M	1883	H	9 00				M	7 20
	M	1884	H	9 00				ml L	6 00 4 80
	M	1885	H	7 00 10 00		M	1886	H	6 00 4 50
	м	1886	L H	8 00 18 00	Georgia,	M M	1887 1886	M	8 10
	_	1000	mh	14 00	Maine,	M	1886	H	9 18
			M ml	10 00 7 00				mb M	7 50 5 70
	F		L M	4 00 6 00	Maryland,	м	1885	L M	4 20 3 00
	M	1887	H	14 00 12 00	Massachusetts, .	M M	1886 1883	M	8 00
	1		M	9 96	massacuuseus, .	'ug'	1093	mh	9 60
	_		ml L	7 98 6 96				M ml	7 50 5 10
	M	1888	H mb	20 00 18 00		F		L H	3 60 5 10
			M	12 00				Î.	8 30
	<u>'</u>					<u></u>		·	

Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Filling Carriers (COTTON, WOOL- LEN, AND OTHER TEXTILES) - Con. United States - Con. Massachusetts,	м	1886	н	\$9 00 7 44	Finishers (Book- BINDING) — Con. United States - Con. New York,	M	1888	M ml L	\$15 00 10 00 5 00
	P		mh M L M	7 44 5 80 4 20 4 50	Wisconsin, Foreign Countries.	M	1888	M	16 86
	M	1886	H M L	7 50 5 52 4 50	England, Great Britain,	M	1878 1883	M H L	9 25 9 25 7 06
	M	1891	H mh M L	12 00 10 50 7 50 4 50	Scotland, Finishers (Boots	M	1886 1880	M	6 81 8 80
Missouri,	F M	1890	M H M	6 00 9 42 7 26	AND SHORS). United States.				
New York,	M M	188 6 18 8 8	L M H L	5 16 6 00 6 00 8 00	California,	M	1876 1876 1877 1878	M	18 00 18 00 18 00 18 00
North Carolina, . Pennsylvania, Rhode Island,	F M M M	1886 1886 1887 1888	M M M H	8 60 8 00 10 60 9 00 9 90		M M M M	1879 1880 1885 1886	M M M H H	18 00 18 00 18 00 15 00 7 50
Vermont,	M	1886	L M	4 50 6 60		F	1888	mh M	7 00 6 00 4 50
Finishers (Book-BINDING). United States. California, Maryland, Massachusetts, .	M M M M M	1888 1885 1840 1845 1860 1883 1885	MMHLHLH MM mLH mM mLH mM mLH mM mLH Mm	24 00 18 00 11 00 10 00 10 00 12 00 10 00 24 00 21 00 16 50 8 00 26 00 22 50 14 00 14 00 10 00 7 00 3 00 16 00 13 00 15 00 16 00 17 00 18	Illinois,	W WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	1876 1876 1877 1878 1879 1880 1882 1883 1884 1885 1871 1871 1872 1874 1875 1876 1876 1876 1876 1876 1876 1876 1876	МТНИМИМИМИМИМИМИМИМИМИМИМИМИМИМИМИМИМИМИ	8 00 15 00 15 00 15 00 15 00 15 00 18 00 18 00 18 00 16 00 16 00 21 00 16 50 21 00 16 50 16 50 16 50 17 00 18 00 1
Michigan,	M	1884	L H	4 00 21 00		M	1872 1873 1874	M M H	11 40 18 00
New Jersey, New York,	M	1883 1888	M H mb	12 00 18 00 26 00 21 00		M	1875 1876	L H L H	11 10 18 00 11 10 15 00

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Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Finishers (Boots AND SHORS) - Con. United States - Con.					Finishers (Boots AND SHOES) - Con. United States - Con.				
Maine,	M	1876 1877	H	\$11 40 15 00	Massachusetts, .	M	1885	mh M	\$25 00 16 50
	м	1878	L H	11 40 15 00				ml L	10 00 5 00
	M	1879	L H	11 70 14 00		F	ļ	H mh	11 25 9 00
	M	1880	L H	12 00 14 00			ĺ	M	7 00
		1	L	12 00				ml L	8 00
	M	1887	H	9 00 6 00		M	1886	H mh	16 50 14 40
Maryland,	F M	1888 1865	M	6 00 15 00				M ml	12 00 10 62
	M	1866 1867	M M	15 00 15 90		F		L	8 10 11 22
	M	1868	M	15 90		1	1	M	8 40
	M	1869 1870	l M.	15 90 15 90				m) L	6 84 4 02
	M M M	1871 1872	M M	15 90 15 90		M	1891	H mh	25 00 20 00
	M	1873 1874	M	15 90 15 90				M m.l	15 00 10 00
	M	1875 1876	M	18 00 18 00		F		L	4 50 11 00
	M M M	1877	M	18 00		•		mh	10 00
	M	1879	M	18 00			ĺ	M L	7 50 6 00
	M	1880 1886	M	18 00 18 00	Missouri,	M	1882 1879	M	12 00 9 00
Massachusetts	M	1886 1847	M M	10 02 5 76		M	1881	H	12 60 6 00
	M	1861 1862	M	7 00 10 00		M	1882	H	16 00
	M	1863	M	10 00		M	1883	H	18 00
	M	1864 1865	M M	12 00 12 00				mh M	16 00 14 00
	M	1866 1867	M M	17 00 17 00				ml L	12 00 10 00
	M	1868 1869	M	17 00 21 00		M	1884	H mh	21 00 18 00
	M	1870	H	21 00 17 00				M	14 00 10 00
	M	1871	M	19 00				ml L	7 00
	M	1872	H	22 00 18 00		M	1885	H mh	20 00 16 00
	M	1873	H L	21 00 18 00				M ml	12 00 8 00
	M	1874	H L	18 00 9 00		м	1886	L	4 00 20 00
	M	1875	Ĥ L	17 00 9 00		_		mh	18 00 13 50
	M	1876	H	14 00 9 00				ml	10 00
	M	1877	H	14 00		F		L M	4 50
	M	1878	H	7 50 12 00		M	1888	H	18 00 15 00
	м	1879	L H	7 50 12 00				ml L	13 32 12 00
	M	1880	L H	8 00 12 00	New York,	M	1871 1872	M	16 00 15 98
	м	1883	L H	8 00		M	1873	M	16 00
		1993	mb	28 00 23 50		M	1874 1875	M	16 00 16 00
			M ml	18 00 12 00		M M M	1876 1877	M	16 00 14 00
	F		L H	7 00 8 00		M	1878 1879	M M	14 00 14 00
			M L	4 50 8 00		M	1880 1884	M H	14 00 19 50
	M	1885	ñ	30 00		"	1004	L	15 00
					<u> </u>				

GRADED WEEKLY WAGES - Continued.

CUPATIONS, 28, AND COUN- TRIES.	Years Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years (lra	de Weekly Wages
hers (Boots Beors) - Con.			Finishers (CAR- RIAGES AND WAGONS).			
ork, F	1884 M	87 50	United States. Connecticut,	M	1875 M	\$16 50
F M F M	1885 H M L 1886 M H L 1888 H mh M ml L M 1866 M	8 00 5 00 4 00 9 48 8 82 4 80 80 00 17 00 10 00 3 00 6 00 12 00 12 00	Delaware,	M M M M M M M M M M	1876 M 1877 M 1878 M 1879 M 1880 M 1886 M 1864 M 1866 M 1867 M 1868 M 1869 M 1870 M	16 50 16 50 15 00 16 50 18 00 15 00 15 00 15 00 15 00 15 00 15 00
M M M M M M M M	1868 M 1860 M 1870 M 1871 M 1872 M 1873 M 1874 M 1876 H 1876 H 1877 H	12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 18 00 18 00	Georgia,	M M M M M M M M	1872 M 1873 M 1874 M 1875 M 1876 M 1876 M 1878 M 1879 M 1880 M 1865 M 1866 M	18 00 15 00 15 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00
M M M M M M M M M M M M M M M M M M M	1878 H 1879 H 1880 H L 1881 M 1882 M 1882 M 1872 M 1872 M 1873 M 1874 M	12 00 18 00 12 00 19 50 12 00 12 00 12 00 12 00 14 82 12 00 18 00 21 00 18 90		M M M M M M M M M M	1867 M 1868 M 1869 M 1870 M 1871 M 1872 M 1873 M 1874 M 1875 M 1876 M 1877 M 1878 M 1878 M 1879 M	12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00
M M M M M M M	1875 M 1876 M 1877 M 1878 M 1879 M 1880 M 1886 H 1886 H 1888 H mb mb	16 80 14 70 12 60 18 65 15 75 16 80 13 20 23 02 21 00 18 00 15 00 12 00 12 72	Illinois,	M M M M M M M M M M	1886 M 1850 M 1851 M 1852 M 1853 M 1854 M 1856 M 1857 M 1857 M 1858 M 1859 M 1859 M 1860 M	9 60 6 00 6 00 6 00 6 00 6 00 6 00 7 50 7 50
m Countries.				M	1862 M 1863 M 1864 M	9 00
				M	1865 M	10 50 10 50
Britain, M	1866 M 1868 M 1871 M 1877 M 1880 H L 1883 H L 1889 M 1880 H L 1885 H	7 20 7 68 7 68 6 72 7 20 2 88 7 20 6 00 4 32 7 26 2 90 7 26		M M M M M M M M M	1866 M 1867 M 1868 M 1869 M 1870 M 1871 M 1872 M 1873 M 1874 M 1875 M 1876 M 1877 M	10 50 10 50 10 50 10 50 10 50 10 50 10 50 10 50 10 50 10 50 10 50
Britain, M	1880 H	6 00 4 32 7 26 2 90		M M M	1874 M 1875 M 1876 M	

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekl; Wager
Finishers (CAR- RIAGES AND WAGONS) — Con.					Finishers (CAR- BIAGES AND WAGONS) — Con.	1			
United States - Con.					United States - Con.	ł			
Maine,	M	1879 1880	M	\$9 00 11 00	Michigan,	M	1891 1882	L M	\$6 00 12 00
Massachusetts, .	M M M	1857 1858 1859 1860	M M M M	15 00 15 00 15 00 15 00	New Jersey,	M	1883	H M ml L	15 00 12 00 10 00 9 00
	M M M	1861 1862 1863 1864	M M M M	18 00 18 00 18 00 18 00		M		H M ml L	12 0 11 0 9 5
	M M M	1865 1866 1867	M H L H	18 00 18 00 9 00 18 00	 <u>-</u> .	M	1885	M ml L	18 00 15 00 13 00 12 00
	M	1868	H L	9 00 18 00 9 00	New York,	M M M	1850 1851 1852	M M	10 50 10 50 10 50
	M	1869	H L H	18 00 9 00 18 00		M	1853 1854 1855	M	10 50 10 50 10 50
	M	1870	L	9 00		M	1856	M	10 54
	M	1871	H mh	22 50 19 80		M	1857 1858	M M	10 5 6
			M L	15 00 9 00		M	1859 1860	M	10 54 10 5
	M	1872	H mh	22 50 19 80		M	1865 1870	M	18 0 21 0
			M L	15 00 9 00		M	1873	H	21 0 15 0
	M	1873	H	22 50		M	1874	H	30 0
			mh M ml	19 80 15 00 11 00 9 00		M	1875	L H M	12 00 31 95 19 50 12 90
	M	1874	IL IH mh	24 00 21 00		M	1876	L H L	30 00 12 00
	İ		M	15 00 9 00		M	1877	H	27 9 10 9
	M	1875	H mh M	24 00 21 00 15 00		M	1878	H M L	24 00 18 00 10 90
			ml L	10 50 9 00		M	1879	H	24 00 10 95
	M	1876	H M ml	22 50 15 00 12 00		M	1880	H M L	25 96 19 50 12 00
	M	1877	L H M	9 00 21 00 13 50		M	1888	H M L	13 00 9 00 7 50
	м	1878	L H M	9 00 21 00 15 00	Ohio,	M M M	1872 1879 1881	M M H	12 00 8 00 9 24
	M	1879	I. H	9 00		M	1886	Ľ H	7 50 16 50
	"	1018	M	15 00		M	1887	L H	7 80
	М	1880	H	21 00	2	-		I.	7 5
]	mh M	18 00 15 00	Pennsylvania,	M	1879	H L	15 0 8 10
	м	1885	L H	9 00 15 00		M	1888	H L	13 50 12 00
			M L	12 00 10 00	Foreign Countries.			1	
Michigan,	M	1884 1891	M	6 30	England,	M	1880	H	7 4 2 1
	, m.	1991	mh M ml	12 00 12 00 10 50 8 00		M	1883	H M L	7 9: 6 8 2 0

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OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Finishers (Clocks, Watches, and Jewelry). United States.					Finishers (Cook- ing, Lighting, and Heating Ap- paratus) — Con.				
			١		United States - Con.				
Connecticut,	M	1860 1874	M	\$7 44 24 00	Illinois,	M	1875 1876	M M	\$9 00
Illinois,	M F M F M M	1887 1881 1882 1883 1884	THL MM MM MM MM MM MM MM MM MM MM MM MM MM	12 00 13 24 5 12 7 05 4 70 12 00 6 00 19 00 19 00 17 00	Massachusetts, .	M M M M M M M	1877 1878 1879 1880 1861 1862 1863 1864 1865 1866	M M M M M M M M M M	9 00 9 00 9 00 9 00 10 50 10 50 9 60 12 00 15 00
Massachusetts, .	M F M F	1885 1886 1885	H L M H L	17 00 17 00 13 74 14 40 21 00 9 00 6 00 14 00		M M M M M M	1867 1868 1869 1870 1871 1872 1873 1874	M M M M M	15 00 18 00 18 00 18 00 16 50 16 50 16 50 16 50
New Jersey,	F M	1881	L M H L	12 00 6 00 15 00 12 00		M M M	1875 1876 1877 1878	M M M M	16 50 18 50 13 50 13 50
	M	1882	H mh M L	24 00 21 00 18 00 15 00		M M M	1879 1880 1885	M H M	11 22 12 00 12 00 10 00
	M	1888	H M L M	21 00 18 00 15 00 18 00	Michigan,	M M M	1891 1886 1891	L M M M	8 00 8 00 6 90 10 50
New York, Ohio,	M	1888 1886	H L M M	6 00 4 00 14 30 18 00	New Jersey, New York,	M M M	1884 1850 1851 1852	M M M	15 00 9 78 9 78 9 78
Finishers (Cook- in G, Lighting, and Heating Apparatus). United States.						M M M M	1853 1854 1855 1856 1857 1858	M M M	9 78 9 78 9 78 9 78 9 78 9 78
Iilinois,	M M M M M M M M M M M M M M M M M M M	1850 1851 1852 1858 1854 1855 1856 1857 1858 1859 1860	M M M M M M M M M	6 90 6 90 7 50 7 50 7 50 7 50 7 50 7 50 7 50 7 5		M M M M M M M M	1859 1867 1868 1869 1874 1875 1876 1877 1878 1879 1880 1888	M M M M M M M M M	9 00 9 00 10 50 13 50 13 50 9 78 9 78 12 00 15 00
	M M M M M M M M M M M M	1861 1862 1863 1864 1865 1866 1867 1868 1870 1871 1872 1873 1874	M M M M M M M M M	7 50 9 00 9 00 10 50 10 50 9 00 9 00 9 00 9 00 9 00 9 00	Pennsylvania,	M M M M M M M M	1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865	mb M L M M M M M M M M	13 50 12 00 9 00 9 04 9 76 5 04 6 36 7 06 6 92 7 02 6 48 14 34 11 75

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Orade	Weekly Wages
Finishers (Cook- ING, LIGHTING, AND HEATING AP- PARATUS) — Con. United States - Con. Pennsylvania,	M M M M M M M	1866 1867 1868 1869 1870 1871 1872	M M M M H L H L H	\$13 04 14 12 14 76 13 26 12 92 16 50 10 16 18 00 10 30 16 50	Finishers (Corton, Woollen, AND OTHER TEXTILES) — Con. United States - Con. Delaware,	M M M M M M	1886 1857 1858 1859 1860 1861 1862 1863	H M M M M M	\$18 00 7 50 9 00 9 00 9 00 9 00 9 00 9 00
	M	1874	H	11 17 15 00		M M M	1864 1865	M	13 50 12 00 13 50
	M	1875	L H L	11 94 12 00 9 20		M	1866 1867 1868	M M M	12 84 12 00
	M	1876 1877	M H L	10 50 12 00 10 58		M M M	1869 1870 1871	M M M	12 00 12 00 18 00
	M	1878 1879	H	12 00 13 50		M	1872 1873	M M M	18 00 18 00 18 00
	M	1880	H L	11 48 16 80 11 75		M M M	1874 1875 1876	M	18 00 18 00
Finishers (Corton, Woollen, AND OTHER TEXTILES).						M M M M	1877 1878 1879 1880 1886	M M M M M	18 00 18 00 18 00 18 00 8 40 4 82
United States.	١		١.,		Indiana,	M	1850	M	6 00
California,	M M	1886 1888	M H M ml L	6 00 18 00 12 00 7 50 8 60 6 00		M M M M	1851 1852 1853 1854 1855 1856	M M M M	6 00 6 00 6 00 6 00 6 00
Connecticut,	M	1860 1864	H L M	6 76 3 66		M M M	1857 1858 1859	M M M	7 50 9 00 9 00
	M	1865 1866	M	7 14 7 14 7 80		M	1860 1861	M	9 00
	M	1867	M	9 18 8 28		M	1862 1863	M	10 00
	M	1868 1869	M M	7 38		M	1864	M	15 00
	M	1870 1871	M	7 80		M	1865 1866	M	18 00 18 00
	M	1872 1878	M	7 14 7 38		M	1867 1868	M	18 00 18 50
	M	1874 1875	M M	6 90 6 66		M	18 69 1870	M M	13 50 13 50
	M	1876 1877	M	6 66 5 76		M	1871 1872	M	13 50 15 00
	M	1878	M	5 76		M	1873	M	15 00
	M	1879 1880	M M	5 52 5 28		M	1874 1875	M	15 00 15 00
	M	1886	H M	7 50 5 40		M	1876 1877	M M	12 00 12 00
	F	1	L H	8 90		M	1878 1879	M	12 00 12 00
	1 -		L	8 90		M	1880	M	12 00
	M	1887	H M	10 03 8 09		M	1886	H M	15 00 9 00
			ml L	5 28 3 42				ml L	6 00 3 48
	F		н	6 77	Ta	F	1994	M	7 26 9 00
		l	M ml	5 83 4 00	Iowa,	F	1886	M	4 50
			L	3 00	Kentücky,	M	1886	H	8 68

GRADED WEEKLY WAGES - Continued.

	JKA	DEL	WE	EKLI	WAGES — COILL	uuec	4.		
Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Finishers (Corton, Woollen, AND OTHER TEXTILES) — Con.					Finishers (Corton, Woollen, and Other Textiles) — Con.				
United States - Con.	1	ł	i		United States - Con.	1			
Kentucky,	M	1886	L	\$4 32	Massachusetts, .	M	1874	M	\$6 72 5 16
Maine,	M	1886	H M L M	9 96 6 60 5 40 8 10 6 00 6 48		F M	1875	L M H L	4 62 7 50 4 92
	F		M	I 66 000 I		F	1876	L M H	4 62 7 20
Maryland,	M	1888 1885 1886	M M H L	4 08 4 80		F	18/0	M L M	6 00
Massachusetts, .	M	1837 1838 1850	M M H	8 36 6 00 6 00 6 00		M	1877	H L M	4 86 4 14 7 20 5 16 8 72
•	M	1855	H H	6 00 4 56 3 48 4 80 3 60 4 68 2 60	·	M F M	1878	H L M H	7 20 4 62 8 72 7 20
	M F	1858	L M	4 68		1	1019	L	4 92
	F M	1859	M	2 60 4 92		F M	1880	H	7 50
	I TP	1860	M	2 84 5 28		F		L	5 46 3 66
	M F M	1861	M	4 92 2 84 5 28 2 90 5 46 3 42 3 08		М	1883	H mb	30 00 24 00
	1	1901	L	8 42		1	İ	M	18 00
	F M	1862	H	3 06 5 40 3 42 3 36 5 52		F		ml L H mh	10 80 8 00 9 00 7 50 6 50
	F M F	1863	M H L M	8 48 8 90				M ml L	5 00
	M	1864	H L M	7 98 4 20 8 56		M	1885	mb M	30 00 20 00 16 50
	M	1865	H L M	8 10 6 54		F		ml L H mh	9 75 4 50 8 82 7 50
	F M	1866	H L M H	6 18	·	!		M ml L	6 00 4 68
	F	1868	L M H	6 24 4 70		M	1886	mh M	3 30 24 00 18 50 15 00
	F		L M	5 82 4 79				ml L	9 00 6 06
	M	1869	H	8 52 5 82 4 79 9 00 7 50 5 88 4 94 9 00		F	ļ	H	9 00 6 72
	_		L M	6 88	ŀ			ml	5 52 4 50
	P M	1870	H	9 00 7 86 5 70		М	1891	H mh M	27 00 21 00 16 00
	P M	1871	L M H M	4 92 10 02		F		mi L H	9 00 4 50 12 00
	P M	1872	L M H	7 74 5 70 4 88 10 02				mb M ml	9 46 7 00 4 50 2 00
			M L	7 92 5 94	Missouri,	M	1886	L M	12 00
	F	1070	M	4 91		F	1890	M	12 00 5 34
	M	1873	H	8 74	New Hampshire, .	M	1886	H	7 80
	F		L M	5 88 4 86		F		L M	5 70 5 40
	М	1874	H	9 00	New Jersey,	M	1861	H	15 00
	<u> </u>	<u> </u>	<u> </u>		'				

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OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Finishers (Cotton, Woollen, And Other Textiles) — Con.					Finishers (Corton, Woollen, AND OTHER TEXTILES) — Con.				
United States - Con.			1		United States - Con.	1	l		
New Jersey,	M	1861	L	\$10 50 9 00	New York,	F	1876 1877	H	\$7 50 7 14
	M	1877 1880	M H	15 00		ŀ	l	L	4 26
	M	1881	L M	10 50 7 50		M	1878	H	7 14 4 26
	M	1882	H	14 00	•	M	1879	H	7 14 4 26
			mb M ml	12 00 10 00 7 50		M	1880	H	6 30 3 30
	l_		L	5 00	İ	F	1000	M	7 50
	F		H	6 00 3 50		M	1883 1884	M	10 20
	M	1883	H	12 00		M F	1885	H	8 70 12 00
			mh M	10 00 8 00		F		M	9 00
	1		ml	6 00 3 00				ml L	6 90 5 40
	F		L H	10 00		M	1886	H	12 90
			M ml	7 50 5 50				mh Ma	10 20 9 00
			L	3 00			1	ալ	7 50
	M	1884	H	11 66 10 00		F		H	7 50
			ml	8 00 7 00		İ	1	M ml	6 00 4 50
	м	1885	L H	12 00				L	8 00
			mh	11 00 9 50	1	M	1887 1888	H	10 20 15 00
		i	L	7 00		188	1000	mh	12 00
	М	1886	H	18 00 12 00		İ	1	M ml	9 00
			ml	8 00		١_	l	L	8 00
	F		H	4 50 5 25		F	ŀ	H mh	14 00 12 00
	-		L	3 96				M	9 00
	M	1888	H mh	20 00 15 00			Ì	l T	4 00
		1	M	13 50 9 00	North Carolina, .	M	1886	M	5 10 3 00
		1	ml L	7 98	Ohio,	M	1871	M	12 00
NT TT .	F	1860	M	5 25 4 59		M M M	1872 1873	M	12 00 12 00
New York,	M	1861	M	4 59		M	1874	M	10 80
	M	1862	M	4 59 4 59		M	1875 1876	M	10 50 10 50
	M	1863 1864	M	4 59 4 59		M	1877	M	10 50
	M	1865	Н	7 68	,	M	1878	M	10 50 12 00
	м	1866	L H	4 14 7 68		MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	1879 1880	M	12 00
	l	1000	L	4 14		M	1882	M	9 30
	F	1867	M H	9 00 7 68	Pennsylvania,	M M	1864 1865	M	15 00 15 00
		1	L	4 14		M	1866	M	15 00
	M	1868	H	7 68 4 14		M	1867 1868	M	15 00 15 00
	F		M	10 50		MMMMMM	1869	M	13 50 13 50
	М	1869	H	7 68 4 14		M	1870 1871	M	18 50
	M	1870	H	7 05		M	1872	· M	18 50
	F		L	4 80 10 50		M	1873 1874	H	18 50 13 50
	F	1872	M	9 00		Į.		L	7 20 13 00
	M	1874	H	7 14 4 26		M	1875	H	13 00
	M	1875	H	7 14		M	1876	Ĥ	15 00
	м	1876	I.	4 26 7 14			1	mh M	13 26 11 00

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Finishers (Cotton, Woollen, and Other Textiles) — Con.					Finishers (Corton, Woollen, AND OTHER TEXTILES) — Con. Foreign Countries				
United States - Con.			1		-Con.	1			
Pennsylvania,	M	1876 1877	L H	\$6 00 11 00	England,	M	1880	H	\$6 24 2 88
		1011	L	6 00		F	1883	M	8 60 6 60
	F M	1878	H	8 60 15 00		M	1000	H	1 92
			mh M	12 00 10 50		F M	1884	M	2 46 2 49
			ml	9 00		F M	1885 1886	M M M	2 49 2 64
	M	1879	H	12 00		F	1000	H	8 72
			mh M	10 80 9 00	Germany,	M	1865	L	1 98 4 28
			ml L	7 50 5 88		M	1866 1867	M	5 00 5 00
	M	1880	H	10 00		M	1868 1869	M	5 00 5 00
	M	1884	L M	3 96		M M M	1870	M	5 85
	M	1886	H	9 00 8 78		M	1871 1872	M	5 85 4 40
	F M	1888	H	5 58 15 00		M	1878	H L	4 52 8 21
	M	1000	mh	12 00		F		M	1 60
			M ml	9 00 6 00		M	1874	H	8 56
	F		L H	8 00 9 00		F	1875	M	1 72 5 71
	•		M	6 00		F		L	8 41 1 72
Rhode Island,	M	1860	L M	3 84		M	1876	M	8 27
	M	1870 1871	M	6 00 7 50		F	1877	M	1 72 8 04
	M	1874 1880	M	8 10 7 80		F	1878	M	1 72 8 04
	M	1888	M	7 50		F	1883	M	1 72
United States (not specified),	М	1879	M	18 50		M	1890	н	7 20
Virginia,	М	1880 1870	M	13 50 10 50	Great Britain	M	1880	H	4 80 6 29
vinginia,	KK	1871	M	10 50 10 50		F		L	2 90 8 63
	M	1872 1873	M	10 50		M	1883	H	7 80
	M	1874 1875	M	10 50 10 50				mh M	6 08 4 87
	M	1876 1877	M	10 50 10 50		1		ml L	8 65 2 43
	M	1878	M	10 50 10 50		F	1886	M	2 92 5 22
	M	1879 1880	M	10 50				L	2 16
Wisconsin,	M	1888	H M	14 64 12 72	Holland,	M	1885 1880	M	8 90 5 76
			L	7 92	•	M	1883	H	4 48 2 28
Foreign Countries.	.	1005		0.50		F	1886	M	2 16 4 62
Austria,	M	1885 1883	M M	2 70 4 50		•	1000	ML	8 06
Bohemia,	M	1885 1839	M	3 60 5 04	Silesia,	м	1885	L M	1 72 2 20
	M	1849 1858	M	5 28 6 72	Finishers (FUR-				
	M	1859	M	5 28	NITURE).				
	M	1860 1861	ME I	5 76 5 76	United States.	1_			
	M	1863 1866	M	5 76 3 84	California,	M	1870	H	21 00 12 00
	-	1877	L H	1 92		M	1871	H	21 00 12 00
	M	1011	L	2 88		M	1872	H	21 00
	F		M	2 88		}	١	L	12 00

Couple Sex S							=	_		
MITUREY COL. Collifornia, M	STATES, AND COUN-	Sex	Years	Grade		STATES, AND COUN-	8ex	Years	Grade	Weekly Wages
California, . M 1873 H 221 00 Illinoia, M 1870 M 6 13 50 M 1871 H 21 00 M 1875 H 21 00 M 1875 H 21 00 M 1885 H 11 00 M 1875 H 21 00 M 1885 H 21 00 M 1885 H 21 00 M 1885 H 21 00 M 1885 H 21 00 M 1885 H 21 00 M 1885 H 21 00 M 1885 H 21 00 M 1885 M 20 00 M 20 00 M 20 00 M 20 00 M 20 00 M 20 00 M 20 00 M 20 00 M 20 00 M 20 00 M	NITURE) - Cou.					MITURE) - Con.				
M		w	1973	ш	#21 M	1	M	1879	mh	£ 13 50
M 1870 M 21 00	Camioina,	1		L	12 00		-		M	
M 1876		M	1874				v	1000	1.5	4 14
M 1876 H 21 00		M	1875	뉴	21 00		.ma	1000	¥	
M 1877 H 21 00			l	L	12 00			İ .	L	4 62
M 1877 H 21 00 Indians M 1886 M 7 50 0 M 1878 H 21 00 M 1860 M 9 00 M 1879 H 21 00 M 1861 M 9 00 M 1880 H 21 00 M 1862 M 10 50 M 1885 H 21 00 M 1863 M 10 50 M 1885 H 21 00 M 1865 M 10 50 M 1885 H 21 00 M 1866 M 10 50 M 1861 M 10 80 M 1866 M 10 50 M 1861 M 10 80 M 1868 M 10 50 M 1865 M 12 00 M 1870 M 10 50 M 1865 M 13 50 M 1871 M 10 50 M 1866 M 13 50 M 1871 M 10 50 M 1877 M 12 00 M 1877 M 10 50 M 1877 M 12 00 M 1877 M 10 50 M 1877 M 12 00 M 1877 M 10 50 M 1877 M 12 00 M 1877 M 10 50 M 1877 M 12 00 M 1877 M 10 50 M 1877 M 12 00 M 1877 M 10 50 M 1877 M 12 00 M 1877 M 10 50 M 1877 M 12 00 M 1877 M 10 50 M 1877 M 10 80 M 1877 M 10 50 M 1877 M 10 80 M 1877 M 10 50 M 1877 M 10 80 M 1877 M 10 50 M 1877 M 10 80 M 1877 M 10 50 M 1877 M 10 80 M 1877 M 10 50 M 1877 M 10 80 M 1877 M 10 50 M 1877 M 10 80 M 1877 M 10 50 M 1877 M 10 80 M 1877 M 10 50 M 1877 M 10 80 M 1877 M 10 50 M 1878 H 13 50 M 1877 M 12 50 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1871 H 13 50 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1871 H 13 50 M 1870 M 1870 M 1870 M 1871 H 13 50 M 1870 M 1870 M 1870 M 1871 H 13 50		M	1876				M	1885		18 00
No. 1878 Mode 1879 Mode 1879 Mode 1879 Mode 1879 Mode 1879 Mode 1879 Mode 1879 Mode 1879 Mode 1879 Mode 1879 Mode 1879 Mode 1879 Mode 1879 Mode 1879 Mode 1879 Mode 1877 Mode 1870 Mode 1877 Mode 1870 M		M	1877		21 00		м	1886	¥	
M 1879 M 1879 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1871 M 1870 M 1871 M 1871 M 1870 M 1870			1	L	12 00	Indiana,	M	1858	M	9 00
M 1879		М	1878						M.	
M		M	1879				M		¥	
Connecticut,		1		L	12 00		M	1862	M	
Connecticut,		M	1880		21 00		M		W	
Connecticut, M 1860 M 10 80 M 1861 M 10 80 M 1862 M 10 50 M 1868 M 10 50 M 1868 M 10 50 M 1868 M 10 50 M 1868 M 10 50 M 1866 M 13 50 M 1866 M 13 50 M 1866 M 13 50 M 1866 M 1870 M 12 00 M 1870 M 12 00 M 1872 M 12 00 M 1872 M 12 00 M 1872 M 12 00 M 1872 M 12 00 M 1872 M 12 00 M 1874 M 10 50 M 1874 M 10 80 M 1876 M 1876 M 10 80 M 1876 M 1876 M 10 80 M 1876 M 1876 M 10 80 M 1877 M 10 80 M 1876 M 1876 M 10 80 M 1876 M 1876 M 10 80 M 1876 M 1870 M 12 00 M 1876 M 1876 M 10 80 M 1876 M 10 80 M 1876 M 10 80 M 1876 M 10 80 M 1876 M 10 80 M 1876 M 10 80 M 1876 M 10 80 M 1876 M 10 80 M 1876 M 10 80 M 1876 M 10 80 M 1876 M 10 80 M 1878 M 10 80 M 1878 M 10 80 M 1878 M 10 80 M 1878 M 10 80 M 1878 M 10 80 M 1876 M 1870 M 1880 M 11 10 50 M 1876 M 10 80 M 10 80 M 10 80 M 10 80 M 10 80 M 10 80 M 1876 M 10 80 M 10		M	1885		21 00		M	1865	M	10 50
M 1861 M 10 80 M 1870 M 10 50 M 1871 M 10 50 M 1871 M 10 50 M 1872 M 10 50 M 1873 M 10 50 M 1873 M 10 50 M 1873 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1876			ŀ	M	18 00		W		M	
M 1861 M 10 80 M 1870 M 10 50 M 1871 M 10 50 M 1871 M 10 50 M 1872 M 10 50 M 1873 M 10 50 M 1873 M 10 50 M 1873 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1876	Connectiont.	м	1860				M		M	
M	Connocaci,	M	1861	M	10 80		M		M	
M 1865 M 13 50 M 1873 H 15 00 M 1867 M 13 50 M 1874 H 15 00 M 1888 M 15 00 M 1875 H 15 00 M 1871 M 12 00 M 1876 H 15 00 M 1873 M 10 80 M 1877 M 10 50 M 1875 M 10 80 M 1878 M 10 50 M 1877 M 10 80 M 1879 M 10 80 M 1878 M 10 80 M 1879 M 10 80 M 1878 M 10 80 M 1879 M 10 80 M 1879 M 10 80 M 1879 M 10 50 M 1871 H 10 50 M 1877 M 10 50 M 1872 H 13 50 M 1878 M 12 50 M 1873 H 13 50 M 1879 M 10 50 M 1873 H 13 50 M 1879 M 10 50 M 1874 H 13 50 M 1879 M 10 50 M 1875 H 13 50 M 1879 M 13 50 M 1874 H 13 50 M 1879 M 13 50 M 1875 H 13 50 M 1879 M 13 50 M 1876 H 13 50 M 1879 M 13 50 M 1876 H 13 50 M 1877 M 13 50 M 1877 H 13 50 M 1871 M 13 50 M 1877 H 13 50 M 1871 M 13 50 M 1877 H 13 50 M 1871 M 13 50 M 1877 H 13 50 M 1871 M 13 50 M 1877 H 13 50 M 1871 M 13 50 M 1877 H 13 50 M 1871 M 13 50 M 1877 H 13 50 M 1875 M 13 50 M 1877 H 13 50 M 1871 M 13 50 M 1877 H 13 50 M 1871 M 13 50 M 1878 H 13 50 M 1872 M 13 50 M 1877 H 13 50 M 1875 M 1870 M M 1876 H 13 50 M 1876 H 15 00 M 1877 H 13 50 M 1870 M 1870 M M 1878 H 13 50 M 1870 M 1870 M M 1878 H 13 50 M 1870 M 1870 M M 1878 H 13 50 M 1870 M 1870 M M 1878 H 13 50 M 1870 M 1870 M M 1878 H 13 50 M 1870 M 1870 M M 1878 H 13 50 M 1870 M 1870 M M 1879 M 10 50 M 1870 M 1870 M M 1870 M 1870 M 1870 M 1870 M M 1870 M 1870 M 1870 M 1870 M		M			12 00		M	1870		
M 1866 M 13 50 M 1873 H 15 00 M 1887 M 13 50 M 1874 H 15 00 M 1888 M 15 00 M 1875 H 15 00 M 1871 M 12 00 M 1876 H 15 00 M 1873 M 10 80 M 1877 M 10 50 M 1875 M 10 80 M 1878 M 10 50 M 1877 M 10 80 M 1879 M 10 50 M 1878 M 10 80 M 1879 M 10 50 M 1878 M 10 80 M 1877 M 10 50 M 1871 H 10 50 M 1877 M 10 50 M 1872 H 13 50 M 1878 M 12 50 M 1873 H 13 50 M 1879 M 10 50 M 1873 H 13 50 M 1879 M 10 50 M 1874 H 13 50 M 1879 M 10 50 M 1875 H 13 50 M 1879 M 10 50 M 1874 H 13 50 M 1879 M 12 50 M 1875 H 13 50 M 1879 M 13 50 M 1876 H 13 50 M 1879 M 13 50 M 1876 H 13 50 M 1877 M 13 50 M 1876 H 13 50 M 1877 M 13 50 M 1877 H 13 50 M 1871 M 13 50 M 1877 H 13 50 M 1877 M 13 50 M 1877 H 13 50 M 1876 M 1876 M M 1877 H 13 50 M 1877 M 13 50 M 1877 H 13 50 M 1878 M 13 50 M 1877 H 13 50 M 1870 M 1870 M M 1877 H 13 50 M 1870 M 1870 M M 1876 H 13 50 M 1877 M 13 50 M 1877 H 13 50 M 1876 H 15 00 M 1877 H 13 50 M 1870 M 1870 M M 1878 H 13 50 M 1870 M 1870 M M 1876 H 13 50 M 1876 H 15 00 M 1877 H 13 50 M 1870 M 1870 M M 1878 H 13 50 M 1870 M 1870 M M 1878 H 13 50 M 1870 M 1870 M M 1878 H 13 50 M 1870 M 1870 M M 1878 H 13 50 M 1870 M 1870 M M 1877 H 13 50 M 1870 M 1870 M M 1878 H 13 50 M 1870 M 1870 M M 1877 M 1878 M 1870 M 1870 M M 1878 M 10 50 M 1870 M 1870 M M 1877 M 1870 M 1870 M		M		M			M	1872	M	10 50
M		M	1865	M	13 50				H	
M 1868 M 16 00 M 1876 H 16 00 M 1871 M 12 00 M 1872 M 12 00 M 1873 M 10 80 M 1876 M 1876 M 10 50 M 1877 M 10 50 M 1877 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 12 50 M 1878				M			v	1974	L	
M		M	1868	M			-		Ľ	10 60
M		M	1869	M	16 50		M	1875		
M 1872 M 12 00 M 1873 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1879 M 10 50 M 1879 M 10 50 M 1879 M 10 50 M 1879 M 10 50 M 1879 M 10 50 M 1871 M 15 00 M 1871 M 15 00 M 1871 M 12 50 M 1878 M 12 50 M 1878 M 12 50 M 1878 M 12 50 M 1878 M 12 50 M 1878 M 12 50 M 1878 M 12 50 M 1879 M 11 25			1870				м	1876		
M 1873 M 10 80 M 1870 M 10 50 M 1870 M 10 50 M 1877 M 10 50 M 1877 M 10 50 M 1878 M 10 50 M 1878 M 10 50 M 1879 M 10 50 M 1879 M 10 50 M 1871 M 10 50 M 1871 M 10 50 M 1871 M 10 50 M 1872 M 10 50 M 1877 M 12 50 M 1871 M 12 50 M 1871 M 12 50 M 1871 M 12 50 M 1871 M 13 50 M 1872 M 13 50 M 1873 M 13 50 M 1874 M 13 50 M 1875 M 13 50 M 1872 M 13 50 M 1872 M 13 50 M 1873 M 13 50 M 1874 M 13 50 M 1875 M 13 50					12 00			10.0	î.	10 50
M 1876 M 10 80 M 1870 M 10 50 M 1878 M 10 80 M 1878 M 10 80 M 1878 M 10 80 M 1878 M 10 80 M 1878 M 10 80 M 1874 M 15 00 M 1877 M 12 50 M 1877 M 12 50 M 1877 M 12 50 M 1878 M 12 50 M 1877 M 12 50 M 1877 M 12 50 M 1877 M 12 50 M 1878 M 12 50 M 1878 M 12 50 M 1878 M 12 50 M 1878 M 12 50 M 1878 M 12 50 M 1879 M 11 25 M 1870		M	1873	l Mr	10 80				M	
M 1876 M 10 80 M 1878 M 10 80 M 1878 M 10 80 M 1879 M 10 80 M 1880 M 11 10 60 M 1875 M 14 00 M 1875 M 14 00 M 1875 M 14 00 M 1877 M 12 50 M 1879 M 12 50 M 1879 M 11 25 M 1870 M 1870 M 1870 M 1875 M 12 50 M 1879 M 11 25 M 1870 M			1874	M M						
M 1878 M 10 80 M 1870		M		M	10 80		M	1880	M	11 10
M 1870 M 10 80 M 1871 M 15 00 M 1871 M 14 00 M 1875 M 14 00 M 1875 M 12 50 M 1875 M 12 50 M 1876 M 12 50 M 1877 M 12 50 M 1877 M 12 50 M 1879 M 11 25 M 1870			1877				M	1886		
M		M		M	10 80	Iowa.	M	1874	M	
No. No.		M	1880	M	10 80		M	1875	M	14 00
M	Illinois,	M	1871						W	
M 1878 M 10 50		м	1872				м	1878	M	
N		_		M	10 50		M	1879	M	
N		M	1979				M	1880	M	11 25
N			1010	mh	10 50	Kansas,	M	1870	M	13 50
M		1					M		X	
N		М	1874				M	1878	M	13 50
N		_		mh	11 76		M	1874	M	18 50
M		l	ļ				M	1875 1878	M	
M		М	1875		13 50		M	1877	M	18 50
M 1876 H 13 50 M 1880				mh	10 50		M	1878	M	
M 1876		ļ	1				M M	1879	M	18 50
M		М	1876		13 50	Kentucky,				15 00
M 1877 H 13 50 M 1863 H 15 00 M 1864 H 15 00 M 1865 H 15 00 M 1865 H 15 00 M 1865 H 15 00 M 1865 H 15 00 M 1866 H 1866 H 18				mh	10 50		1	1000	L	
M 1877		1			8 46		#	1502		
M 1878 H 13 50 M 1864 H 15 00 M 1865 H 15 00 M 1865 H 15 00 M 1865 H 15 00 M 1865 H 15 00 M 1866 H 15 00 L 10 50 M 1866 H 15 00 L 10 50 M 1866 H 15 00 L 10 50		M	1877		18 60		M	1863	H	15 00
M 1878 H 13 50 M 1865 H 15 00 M 1865 H 15 00 M 1865 H 15 00 H 15 0			1				14	104		10 50
M 1878 H 13 50 M 1865 H 15 00 M 1866 H 15 00 M 1866 H 15 00 M 1866 H 15 00 M 1866 H 15 00 M 1866 H 15 00 M 1866 H 15 00 M 1866 H 15 00 60		ļ					***	1004	L	10 50
M 7 88 M 1866 H 15 00 L 10 50		M	1878	H	13 50		M	1865	H	15 00
L 3 46 L 10 50		Ì			10 50		M	1986		
M 1879 H 18 00 M 1867 H 15 00		ŀ	1						L	10 50
		M	1879				M	1867	H	15 00
		<u> </u>	<u></u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u></u>		

	GRE	DEL	, W.E	EKLI	WAGES - Conti	uec	ł.		
OCCUPATIONS, STATES, AND COUNTRIES,	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Finishers (Fur- NITURE) — Con.					Finishers (Fur- NITURE) — Con.				
United States - Con.					United States - Con.		l		
Kentucky,	M	1867	L	\$10 50	Missouri,	M	1880	M	\$12 00
	_	1868	H L	15 00 10 50	New Hampshire, .	M	1890 1880	M M	11 16 9 00
	M	1869	н	15 00 10 60	New York,	M	1850	M	9 00
	M	1870	H	15 00		M	1851 1852	M.	9 00
	M	1871	H	10 50 15 00		M	1853	H L	9 00 7 00
	м	1872	L H	11 40 15 00		M	1854	H	9 00
			L	11 40		м	1855	L H	7 00 9 00
	M	1873	H L	15 00 11 40		м	1856	L H	7 00 9 00
	M	1874	H	13 50		-		L	7 00
	M	1875	L H	11 40 13 50	İ	M	1857	H	9 00
	M	1876	L H	11 40 15 00		M	1858	H	9 00
			L	11 40		M	1859	н	9 00
	М	1877	H L	16 50 11 40		м	1860	H	6 00 9 00
	M	1878	H L	18 00 11 40		м	1861	L H	7 00 9 00
	M	1879	H	18 00			1001	M	7 50
	M	1880	L M	11 40 12 00		м	1862	L H	6 00 9 00
Massachusetts, .	M	1883	H mb	25 00 20 00		м	1868	L M	7 50 9 00
			M	15 00		М	1864	H	15 00
			ml L	10 00 6 00		м	1865	H	18 00 15 00
	M	1885	H	21 00 13 00			İ	L	9 00
			ml	8 90		M	1866	M	15 00 18 50
	M	1891	L H	4 86 18 00		м	1867	H	12 00 15 00
	-		mh M	15 00				M	18 60
	1		ml	12 00 9 00		м	1868	L H	12 00 15 00
Michigan,	M	1871	L M	6 00 15 00				M L	18 50 12 00
, · · ·	M	1872	M	15 00		М	1869	H	15 00
	M	1878 1874	M	13 50 13 50			ł	M L	18 50 12 00
	M	1875 1876	M M	12 00 12 00		M	1870	H M	15 00 13 50
	M	1877	M	10 50				L	12 00
	M	1878 1879	M	12 00 12 00		M	1871	H	15 00 18 50
	M	1880 1884	М	18 50 18 00	ĺ	м	1872	L H	12 00 19 00
	_	2001	mh	13 50			10.2	M	15 00
			M ml	10 50 7 50				ml L	13 50 12 00
	м	1886	L H	3 90 15 00		М	1873	H	19 00 15 00
		1000	mh	12 00				ml	18 50
			M ml	10 50 7 50		м	1874	H	12 00 18 00
•	м	1890	L	6 00 19 23	l	_		ML	13 50
		1080	mb	15 00		M	1875	H	11 00 18 00
			M. mol	12 00 8 70				M ml	18 50 12 00
	M	1891	L	5 40	1		1070	L	9 96
	-	1981	H M	15 00 10 50		M	1876	H mh	18 00 13 50
Missouri,	M	1878	L	9 00 12 00				M L	12 00 7 50
	Ж	1879	M	12 00		M	1877	й	16 00
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OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Finishers (FUR- NITURE) — Con. United States - Con.					Finishers (Fur- NITURE) — Con. United States - Con.				
New York,	M	1877	mh M	\$13 50 12 00	Ohio, Pennsylvania,	M M	1888 1870	M M	\$10 50 15 00
	м	1878	mi L H	11 00 9 00 16 00		M M M	1871 1872 1878	M M M	15 00 15 00 15 00
			mh M ml	15 00 13 50 12 00		M	1874 1875	H L H	15 00 12 60 15 00
	M	1879	L H	10 50 18 00		M	1876	L H L	12 00 15 00 12 00
			M ml L	18 50 11 00		M	1877	H L	15 00 10 00
	M	1880	H M ml	18 00 15 00 13 50		M	1878	H L H	15 00 11 00 15 00
	м	1885	L	12 00 18 00				M L	10 80 7 20
	м	1888	L H	16 00 13 50 20 00		M	1880 1885	H L H	15 00 11 50 15 00
	_		mh M	15 96 11 24		M	1886 1888	L M M	11 46 12 00 15 00
Ohio	М	1860	ml L M	7 50 8 50 12 00	Wisconsin,	M	1861 1863	M	9 00 10 50
•	M	1861 1862	M	12 00 12 00		M	1864 1865	M	10 50 10 50
	M	1863	M	12 00		M	1866	M	10 50
	M	1864 1865	M H	12 00 15 00		M M	1867 1868	M	10 50 10 50
			L	12 00		M	1869	M	10 50
	M	1866	H	15 00 12 00		M	1870 1871	M M	10 50 10 50
	M	1867	H	15 00		M	1872	M	10 50
	M	1868	H	12 00 15 00		M	1873 1874 1875	M	10 50 9 00 9 00
	М	1869	L H L	12 00 13 50 12 00		M	1876	H	9 00
	M	1870	H	15 00 12 00		M	1877	H	9 00 6 00
	M	1871	H	15 00 12 00 15 00		M	1878 1879	H L H	9 00 6 00 10 50
	м	1872	H L H	15 00 12 00 15 00		M	1880	Ľ H	6 00
	ļ	1	M L	12 00 10 50		м	1881	M L H	10 50 6 00 18 00
	M	1874	H M L	15 00 12 00 10 50		M	1882	L H	9 00
	M	1875	H M L	15 00 12 00		м	1883	L H L	9 00 18 00 9 00
	M	1876	H	8 10 15 00 12 00		M	1884	H L	18 00 9 00
	М	1877	L H M	8 10 15 00 12 00	Finishers	M	1888	L H	10 50 6 18
	м	1878	L H M	8 10 15 00 12 00	(GLASS). United States.				01.44
	м	1879	H	8 10 12 00	Kentucky, Maryland,	M	1880 1880 1850	M	21 00 21 00 15 00
	M M	1880 1881	L M H	8 10 12 00 12 00 9 00	Massachusetts, .	M M M	1851 1852 1853	M M M	15 00 15 00 15 00
	M	1882	K	10 74		M	1854	M	15 00
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	GIL	DEL	, 44.1	ERLI	WAGES Conti	пиес	J.		
OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Finishers (GLASS) — Con. United States - Con.					Finishers (GLASS) — Con. United States - Con.				
Massachusetts, .	M	1855	M	\$15 00	Pennsylvania,	M	1861	M	\$15 48
	M	1856 1857	M	15 00 15 00		M	1862 1863	M	15 48 20 22
	M	1858	M M M	15 00		M	1864	M	20 22
	M	1859 1860	M	15 00 15 00	İ	M	1865 1866	M	20 22 80 36
	M	1861	X	15 00		1 1		L	27 24
	M	1862 1863	M M	15 00 15 00		M	1867 1868	M	28 44 28 44
	M	1864	M	18 00		M	1869	M	28 44
	M M	1865 1866	M M	18 00 18 00		M	1870	H	28 50 24 00
	M	1867	M	12 00				mol	21 12
	M	18 6 8 18 6 9	M M	12 00 12 00		м	1871	L H	18 00 28 50
	M	1870	M	21 00		-		M	23 28
	M	1871 1872	M M	21 00 21 00		м	1872	L H	18 00 24 00
	M	1878	M	21 00				L	18 00
	M	1874 1875	M M	21 00 21 00		M	1873	H L	24 00 18 00
	M	1876 1877	M M M	21 00 21 00		M	1874	H	24 00
	M	1878	M	21 00		l		M L	21 78 18 00
	M	1879 1880	M	21 00 21 00		M	1875	H	24 00
		1000	H	21 00 16 50		li		mh M	21 78 18 00
New Jersey,	м	1878	L M	10 50 21 00		.	1876	L	14 52
Mew Jersey,	M	1879	H	24 00		M	1910	mh	24 00 21 78
	м	1880	L H	21 00 30 00				M	18 24
	, at	1000	M	24 00				mi L	16 20 12 00
	М	1884	L H	18 00 35 00		M	1877	H mh	24 00 21 78
			Ľ M	22 00				M	18 00
New York,	M	1850 1851	M	16 50 16 50		w l	1878	L H	14 52 24 00
	M	1852	M	16 50		-	2010	mh	21 78
	M	1858 1854	M	16 50 16 50				M T.	18 00 15 06
	M	1855	M	16 50		M	1879	H	27 00
	M	1856 1857	M. M.	16 50 16 50				mh M	24 00 21 60
	M	1858	M M M	16 50			1	ml	19 25
	M	1859 1860	M	16 50 16 50		M	1880	L H	16 14 32 70
	M	1861 1862	M M M	16 50				mh	26 58
	M	1866	M	24 00				M. ml	18 30 12 00
	M	1870 1876	M M	21 60 18 00		M	1881	L H	4 56 25 80
	M	1880	н	22 20		_	1001	M	20 10
			mh M	19 80 17 46		M	1882	L M	13 80 21 72
			L	8 00		M	1883	H	18 18
	M	1888	H	22 00 16 50		м	1884	L M	13 20 12 12
			mol	13 50		M	1886	H	80 00
Ohio,	M	1877	L M	9 00 19 80		м	1888	L H	9 96 22 50
	M	1878	H	19 80		-		mh	20 40
	M	1879	L M	14 40 19 80				M ml	15 00 9 60
	M	1880	H	24 00	Wast Vincinia	ا بر ا	1867	L	6 00
			L	19 80	West Virginia, .	M	1880	M H	15 00 25 80
	M	1886	H L	21 00 15 00	·	м	1885	L H	24 00 7 50
Pennsylvania,	M	1860	M	15 48		**	1900	L	4 50
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Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Finishers (GLASS) — Con. Foreign Countries.					Finishers (HATS) — Con. United States - Con.				
England,	м	1857	M	89 86	New York,	M	1870	M	\$9 56
	M M M	1860 1877 1878	M M H	7 92 6 72 7 20		M	1871 1872 1873	M M	18 33 14 02 14 69 17 87
Scotland,	м	1863	L M	0 96 7 20		M	1874 1875	M	14 79
Finishers (HATS). United States.						M M M	1876 1877 1878 1879	M M M	10 65 10 62 10 40 11 78
California, Connecticut,	M M F	1888 1881	M M H	27 00 13 92 7 02		M	1880 1883 1884	M	10 63 12 00 12 00
	M F	1882	L M M M	6 00 11 76 4 92 11 40		F M M	1885 1886	L M M M	7 50 7 50 12 00 12 00
Iliuo is ,	M M M	1884 1882 1883	M M M	5 40 13 00 13 00		M	1887 1888	M H mh	12 00 30 00 21 30
Maryland,	M	1884 1885 1886 1885	M M M	12 00 12 00 12 00 27 00		F		M ml L M	16 00 10 00 8 00 7 00
Massachusetts, .	M	1850 1860	M H L	12 00 16 00 14 00	Pennsylvania,	F M	1871 1886	H L M	15 00 12 00 8 10
	М	1888	H mb	80 00 26 00	Foreign Countries.	F		M	4 20
	м	1885	M nl L mb	21 00 17 00 12 00 19 50 15 00	England,	M M M M	1839 1849 1859 1863	M M H	8 64 6 00 6 72 8 64
	F		M D L H L	13 68 10 85 7 50 7 00 4 00	Great Britain,	M M M	1877 1880 1888	M M H mh	7 20 6 48 6 24 9 78 8 52
	M	1891	H mb M ml	32 00 28 00 24 00 18 50	Ireland,	F M	1860	M L M M	7 30 6 08 3 65 5 04
New Jersey,	м	1883	L H M ml	6 00 30 00 20 00 15 00	Finishers (LEATHER).	M	1871	A	8 64
	м	1884	L H	9 00 28 00	United States.				
			mh M ml L	20 00 16 00 12 00 8 00	California,	M M M	1866 1871 1872 1878	M M M	13 50 18 80 13 80 18 80
	M	1885	H mh M ml	25 00 20 00 16 50 12 38		M M M	1874 1875 1876 1877	M M M M	13 80 13 80 12 72 12 72
	F M	1888	L H L H	9 00 7 00 4 00 28 00		M M M	1878 1879 1880 1885	M M M	12 72 12 72 13 50 13 50
	-	2003	mh M ml	24 00 19 50 16 00	Deiaware,	M	1886 1885 1886	M	15 96 13 50 15 00
New York,	M M M	1865 1866 1867 1868	L M M M	12 00 15 12 10 83 12 02 12 54	Illinois,	M M M	1882 1883 1884 1885	L M M M	9 96 12 00 12 00 12 00 10 80

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Occupations, States, and Coun- tries.	Sex	Years	(}rade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Finishers (LEATHER) — Con. United States - Con. Maryland, Massachusetts, .	M	1885 1885 1886 1891	H L H mh M c L H M L H mh	\$12 00 10 50 21 00 16 00 18 00 5 00 15 00 13 50 10 98 13 00 15 00	Finishers (LEATHER) — Con. United States - Con. Ohio,	N N N N N N N N N N N N N N N N N N N	1866 1867 1868 1869 1870 1871 1872 1878 1874 1875 1876	M M M M M M M M M M	\$12 96 13 50 13 50 13 98 13 98 13 98 13 98 13 98 13 98 13 98 13 50 13 50
Michigan,	M	1884	M ml L H	12 00 9 00 5 00 11 10		MMM	1878 1879 1880 1881	H M M	18 98 12 96 12 96 13 50
New Jersey,	M	1884	L H L	8 10 12 00 7 00				M ml L	12 00 10 50 9 00
New York,	M M M M M M M M M M M M M M M M M M M	1888 1850 1851 1852 1853 1854 1855 1856 1856 1856 1860 1861 1862 1863 1869 1870 1872 1878 1874 1875 1878	МЖИМ ЖИМ ЖИМ ЖИМ ЖИМ ЖИМ ЖИМ ЖИМ ЖИМ ЖИМ	16 50 12 00 7 50 7 50 7 50 7 50 9 50 7 50 9 50 7 50 9 50 10	Pennsylvania,		1882 1885 1870 1871 1872 1873 1874 1876 1877 1878 1879 1880 1881 1882 1883 1885	МИМИМИМИМИМИ В В В В В В В В В В В В В В	12 06 12 96 17 50 12 00 12 00 12 00 12 00 12 00 12 00 10 00
	M	1885 1888	M H mh M	8 70 18 00 15 00 12 00		M	1888	H mh M ml	18 00 16 00 13 50 11 37
Ohio,	M M M M M M	1856 1856 1857 1858 1859 1860 1861 1862 1863	mi L M M M M M M M	8 00 5 00 6 00 6 48 6 96 7 50 7 98 7 98 9 00 8 46 9 00	Foreign Countries. England, Ireland, Finishers (METALS AND METALLIC GOODS). United States.	М	1883 1887	L H L M	9 00 7 20 3 60 4 32
	M	1864 1865	M	12 96 12 00	California, Connecticut,	M	1886 1867	M	19 98 12 00

Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Finishers (MET- ALS AND METAL- LIC GOODS) - Con. United States - Con.					Finishers (MET- ALS AND METAL- LIC GOODS) - Con. United States - Con.				
Connecticut,	M	1868 1869	M	\$10 50 10 50	New York,	M	1880	H	\$22 50 18 00
	M	1870	M	12 00		M	1883	L M	12 00
	M M	1871 1872	M	12 00 12 00		M	1884 1885	M	12 00 13 00
	M	1873	M	12 00		M	1886	H	14 40
	M	1874	H	24 00 18 00		M	1887	L	10 00 15 00
			ml L	13 98 10 50		M	1888	H mh	36 00 27 00
	M	1875	M	9 00				M	20 00
	M	1876 1877	M M	9 00				ml L	13 00 6 00
	M	1878	M	9 00	4	F		H	8 40
	M	1879 1880	M M	10 50 12 00	Ohio,	М	1877	H	3 90 15 00
	M F	1886	M	10 88 4 90		м	1881	L M	12 00 13 50
	M	1887	M	12 47		M	1882	M	12 80
Delaware,	F M	1865	M	4 00 12 00		M	1886	H L	13 50 9 00
Maryland,	M	1885 1883	M	18 00 16 50	Pennsylvania,	M	1877 1888	MH	7 80 21 42
ing assessed to be the same of	-	1000	M	14 00			1000	mb	17 52
	м	1885	L H	12 00 22 50		ĺ		M L	14 00 9 86
			mh	20 00 15 00	Foreign Countries.			_	
	ĺ		M ml	10 50	England,	M	1840	M	6 72
Ī	M	1891	L H	7 00 18 00		F		H L	7 20 4 80
	_		mh	15 00		M	1850	M	6 72 7 20
	- 1		M L	12 00 6 00				L	4 80
Michigan,	M	1884 1891	M	18 0 0 10 5 0		M	1857	H	9 60 5 76
.	_		mb	9 00			1000	L	1 92
			M ml	8 00 7 00		M F	1860	M	6 48 7 20
Missouri,	м	1884	L M	5 50 12 00		M	1863	L M	4 80 6 84
New Jersey,	M	1871	M	83 00		M	1866	н	7 68
	M	1873 1874	M M	33 00 29 70		1		M L	4 32 2 88
	M	1875 1876	M	25 26 22 80		M	1868	H M	7 68 4 32
Ì	M	1877	M	22 80				L	2 88
	M	1878 1879	M	22 80 22 80		M	1871	H L	8 40 6 00
	M	1880 1881	M	25 20 12 00	France,	M	1885 1883	M H	4 63 8 27
	M	1884	H	24 00	Great Britain,		1999	mh	6 81
			M L	10 05 4 90		!		M ml	4 80 8 16
	M	1885	H	16 50	Ta-1-		1070	L	1 46
	M	1886	H	7 00 27 00	Italy,	M	1878	H L	12 00 4 20
	M	1888	L H	14 00 21 00	Scotland,	M	1871	H	5 40 2 88
	_		M	15 00		M	1877	M	6 52
		1	ml L	12 00 9 00		M	1880 1883	M	6 90 7 92
New York,	M	1845 1850	M.	9 00	Finishers			L	6 00
	M	1855	M	7 50	(l'APER).				
	M M	1858 1860	M M	7 86 8 25	United States.				
	M	1865 1870	M	25 50 19 80	Connecticut,	M	1850 1851	M M	6 00 6 00
	M	1875	M	19 50		M	1852	M	6 48

GRADED WEEKLY WAGES-Continued.

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Finishers (PAPER) — Con. United States - Con.					Finishers (PAPER) — Con. United States - Con.				
Connecticut,	м	1853	M	\$6 48	Maine	M	1878	н	\$ 10 50
•	M	1854 1855	M	7 02 9 00	·	м	1879	L H	7 02 10 50
	M	1856	M	9 00			1	L	7 02
	M	1857 1858	M	9 00		M	1880	H	12 00 7 50
	M	1859	M	9 00		M	1886	H	12 00
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	M M M	1862	M	9 00	Varminad	F	1888 1885	M	5 00 7 50
	M	1863 18 64	M	10 02 15 00	Maryland, Massachusetts, .	M	1840	M	6 00
	M	1865 1866	M	15 00 15 00	•	M	1845 1848	M	6 96 7 26
		1867	M	15 00		M	1850	M	7 00
	M M M	1868 1869	M	16 50 16 50		M	1855 1857	M	7 50 7 68
	M	1870	M	18 00		M	1858	H	10 02
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	M	1878	M	18 00		M	1859	н	10 02
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	M	1878	M	10 50 12 00		M	1861 1865	H	7 98 13 50
	M	1879 1880	H	12 00		-	i	L	10 00
	M	1887	H	16 50 13 50		M	1866	H	21 00 18 00
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Delaware,	M	1850 1855	M	6 00		M	1868	H	18 00 21 00
	M	1860	H	14 00			1	L	18 00
	M	1864	L M	6 96 14 00		M	1869	H M	24 00 18 00
	M	1865	M	9 96				L	15 00
	M	1868 1870	M	10 98 14 00		M	1870	H	24 00 18 00
	1		L	10 98			1001	L	13 50
	M	1875 1877	M	12 00 12 00		M	1871	H	24 00 18 00
	M	1880	H	14 00 10 98		M	1872	H	24 00 18 00
	M	1886	H	18 00		1		M	16 50
Georgia,	м	1870	L M	16 80 6 00		M	1873	H	9 96 24 00
andigue,	M	1871	M	9 00		-	-3.5	M	18 00
	M	1872 1873	M	9 00		}		ml L	16 50 12 00
	l M	1874	M	9 00		M	1874	H	24 00
	M	1875 1879	M	9 00				M ml	18 00 15 00
TW1-	M	1880	M	8 00		M	1875	L	12 00 24 00
Illinois,	M	1876 1877	M	7 50		A	1919	H mh	18 00
	M	1878 1879	M	7 50 7 50				M T.	16 50 10 50
	M	1880	M	6 75		M	1876	Ħ	24 00
Maine,	M	1871 1872	M	7 50 7 50				M L	15 00 10 50
	M	1873	M	7 50		M	1877	H	24 00
	M	1874 1875	H	7 50 10 50				M ml	15 00 13 50
	i i		L	7 50		,	10-0	L	10 50
	M	1876	H	12 00 7 02		M	1878	H	24 00 12 18
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(PAPER) — Con. United States - Con. Massachusetts, M 1889 M 1890 M 1800	STATES, AND COUN-	Sex	Years	Grade	Weekly Wages	STATES, AND COUN-	Sex	Years	Grade	Weekly Wages
Massachusetts, . M 1870 M 2	(PAPER) - Con.					(PAPER) - Con.				
M 1880 M 1880 M 1866 M 9 00 M 1866 M 9 00 M 1866 M 9 00 M 1866 M 9 00 M 1866 M 9 00 M 1866 M 9 00 M 1867 M 9 00 M 1867 M 9 00 M 1870 M 1860 M 1870 M 1860 M 1870		M	1879	м	\$ 12 18	1	M	1864	м	\$9.00
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M 1896				L	6 00		M	1874	M	9 00
M 1896		F					M			
M 1886				ml	7 50		M	1877	M	9 00
Michigan,		M	1886	н	16 50		M	1879	M	9 00
Michigan,							M		M	
Michigan,						1	M	1883	M	
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M 1875 H 12 00 M 1866 M 10 50 F M 4 20 M 1876 H 12 00 M 1866 M 10 50 F M 4 20 M 1876 H 12 00 M 1877 H 12 00 M 1879 H 12 00 M 1879 H 12 00 M 1879 H 12 00 M 1879 H 12 00 M 1880 H 15 00 F M 4 80 M 4 80 M 1880 H 15 00 M 1880 H 15 00 M 1880 H 15 00 M 1880 H 15 00 M 1880 H 15 00 M 1880 H 15 00 M 1880 H 15 00 M 1880 H 15 00 M 1880 H 15 00 M 1880 H 15 00 M 1880 M 1880 M 12 00 M 1880 H 15 00 M 1880 M 1880 M 12 00 M 1870 H 15 00 M 1880		M	1878	M	12 00			1004	L	9 00
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M 1877 L 9 00 F M 1867 H 13 50 L 10 50 M 1868 H 15 00 M 1879 H 12 00 M 1868 H 15 00 M 1868 H 15 00 M 1868 H 15 00 M 1868 H 15 00 M 1868 H 15 00 M 1868 H 15 00 M 1869 H 15 00 M 1869 H 15 00 M 1869 H 15 00 M 1869 H 15 00 M 1869 H 15 00 M 1869 H 15 00 M 1869 H 15 00 M 1869 H 15 00 M 1869 H 15 00 M 1869 H 15 00 M 1869 H 15 00 M 1869 H 15 00 M 1870 H 18 18 00 M 1870 H 18 18 00 M 1870 H 18 18 00 M 1870 H 18 18 00 M 1870 H 18 18 00 M 1870 H 18 18 00 M 1870 H 18 18 00 M 1870 H 18 18 00 M 1870 H 18 18 00 M 1870 H 18 18 00 M 1870 H 18 00 M 1870 M 1		M	1876	L H	10 50 12 00		F M	1866	M	
New Jersey, . M 1862 M 9 00 M 1862 M 9 00 M 1862 M 9 00 M 1862 M 9 00 M 1867 M 4 80 M 1867 M 4 80 M 1868 M 12 00 M 1867 M 4 80 M 1867 M 4 80 M 1867 M 18		м		L	9 00		F		M	4 80
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M 1880 H 12 00 F M 1890 H 15 00 M 1886 M 12 00 M 1886 M 12 00 M 1861 M 9 00 M 1870 H 18 00 M 1862 M 9 00 M 1870 H 18 00 M 1870 H 18 00 M 1870 M 1800 M 1870 M 1800 M 1870 M 1800 M 1870 M 1800 M 1800 M 1870 M 1800 M 1870 M 1800 M 1870 M 1800 M 1870 M 1800 M 1870 M 1800 M 1870 M 1800 M 1870 M 1800				H	12 00			1868	H	15 00
New Jersey, . M 1886 M 12 00 M 1869 H 15 00 New Jersey, . M 1861 M 9 00 F M 4 80 M 1862 M 9 00 M 1870 H 18 18 00		м	1880				F			10 50
New Jersey, M 1861 M 9 00 F M 4 80 M 1870 H 18 00				L	9 00			1869	H	15 00
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GRADED WEEKLY WAGES - Continued.

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OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Finishers (PAPER) — Con. United States - Con.					Finishers (PAPER) — Con. United States - Con.				
New York,	F	1870 1871	M	\$6 00 10 50	Pennsylvania,	M	1866 1867	L H	\$7 50 12 00
	м	1872	L H M	9 00 18 00 12 00		M	1868	L H	7 50 12 00
			mi L	10 50		м	1869	L H E	7 50 14 00 7 50
	F	1873	H	6 00 12 00		M	1870	H	14 00 7 50
	M	1874	M L H	10 50 9 00 12 00		M	1871 1872	H L H	14 00 7 50 14 00
	1	10.1	H M L	10 50 9 00		M	1873	L H	7 50 14 00
	F M	1875	M H M	5 10 13 50 10 50		М	1874	H	7 50 14 00
	м	1876	L H	9 00 18 50		M	1875	L H L	6 60 14 00 6 60
	_		M L M	12 00 9 00		M	1876	H M	12 60 7 20
	F	1877	H	6 10 13 50 12 00		м	1877	L H L	4 50 12 60 7 20
	м	1878	H	9 00 12 00		M	1878	H L	12 60 7 20
	F	1879	L M H	9 00 4 80 12 00		M	1879	H M L	12 60 10 50 7 20
	M	1880	L H	9 00 18 00		M	1880	H L M	14 00 7 20
	F		L M	12 00 9 00 4 80		M	1886 1888	H	12 00 21 60
	M	1888	H mh	15 00 12 00	•			mb M ml	16 50 15 00 10 50
			M ml	10 50 8 25 7 20	Wisconsin,	M	1880	L M	7 50 9 00
	F		L H M	7 20 6 00 5 00		M	1861 1862 1863	M M M M	9 00 9 00 9 00
	! !		ml	4 00 3 00		M	1864 1865	M	12 00 12 00
Ohio,	М	1872 1873 1874	L M M	17 10 18 00 12 00		M M M	1866 1867 1868	M M M	12 00 10 50 9 00
	M	1875 1876	H	12 00 12 00		M	1869 1870	M M M	9 00 7 50
	M	1877	L H L	10 50 11 52 10 50		M M M	1871 1872	M M M	7 50 7 50 7 50
	М	1878	H L M	11 52 10 50		M	1873 1874 1875	M M M	7 50 7 50 7 50
	M	1879 1880	н	10 98 13 50		M	1876 1877	M	7 50 7 50
	M	1881	L H M	10 50 12 00 10 44		M M M	1878 1879 1880	M M M	9 00 9 00 9 00
	М	1882	M L M	7 50 9 36	Foreign Countries.	M	1888	M	6 66
Penneyivania,	F M M	1886 1858 1859	M	10 50 8 00 8 00	England,	M M	1868 1880	M	6 30 6 00
	M	1860 1861	M M M M M M M M M	8 00 8 00	Great Britain,	M	1880	L H	2 16 6 05
	N N N N N	1862 1868 1864	M M M	8 00 10 00 12 00	Ireland,	M	1858 1860	IL M M	2 18 2 88 2 88
	X	1865 1866	H	13 00 12 00	Scotland,	M	1840 1841	M	2 88 3 60 3 60

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- triks.	Sex	Years	Grade	Weekly Wages
Finishers (PAPER) — Con. Foreign Countries — Con.					Finishers (PIANOS AND ORGANS) — Con. United States - Con.				
Scotland,	M M M M M M M	1850 1857 1860 1861 1863 1866 1880 1888	M M M H L H H H M	\$3 60 \$ 84 4 08 4 08 4 80 4 32 2 88 2 88 5 64 1 92 2 88 2 92	New Hampshire, .	M M M M M M M M M	1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864	M M M M M M M M	\$8 40 9 00 9 00 9 60 10 20 10 50 10 50 10 50 10 50 10 50 10 50
Finishers (Pianos and Organs). United States.						M M M	1865 1866 1867 1868	M M M M	12 00 12 00 13 50 15 00
Maine, Maryland, Massachusetts, .	M M M M M M M M M M M M M M M M M M M	1886 1885 1843 1854 1856 1869 1862 1865 1875 1875 1876 1877 1878 1879 1880 1885	H L M M M M M M M M M M M M M M M M M M	9 00 6 72 16 00 10 58 15 04 14 70 13 82 12 63 16 55 17 22 18 12 21 11 19 11 70 12 77 14 18 24 00 20 00 11 80 12 20 13 80 14 90 15 90 16 90 17 50 17 50 18 90 17 50 18 90 17 50 18 90 17 50 18 90 19 90 10 90 11 50 11 60	New Jersey,	M M M M M M M M M M M M M M M M M M M	1869 1870 1871 1872 1873 1874 1875 1876 1877 1886 1887 1886 1882	M M M M M M M M M M M M M M M M M M M	15 000 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 12 00 10 12 00 12 00 12 00 15 00 12 00 15 00 12 00 15 00 12 00 15 00 12 00 15 00 12 00 15 00 12 00 15 00 12 00 10 50 00 10
Michigan,	M M M M M M M M M M	1872 1873 1874 1875 1876 1877 1878 1879	L M M M M M M	7 00 14 31 15 00 13 85 13 15 12 23 11 08 9 00 9 23	New York,	M M M M M M M M M	1853 1854 1855 1856 1857 1858 1859 1860 1861	M M M M M M M	12 00 12 00 12 00 12 00 12 00 12 00 13 00 13 00 12 00
New Hampshire, .	M M M M M M M M M M M	1880 1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849 1850	M M M M M M M M M M M M	9 46 15 00 14 40 15 00 18 00 7 50 7 50 7 50 7 50 7 80 8 10 8 10		M M M M M M M M M M M	1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1876 1876	M M M H L M M M M M M M M	13 00 14 00 15 00 15 00 16 00 17 00 18 00 19 00 18 00 19 00 11 00 17 00 18 00 10 00 11 00 11 00 11 00

	M 1	878 879 880	M		Firemen (Cotton, Woollen, AND OTHER TEXTILES) — Con.				
New York,	M 1 M 1	879	M			1			
	M 1 M 1	879	M		United States - Con.				
	M 1	880	M	\$16 00 17 00	Georgia,	M	1886	H L	\$5 10 8 90
		883	M H M	19 00 18 00 17 00	Indiana,	M M M	1886 1886 1886	M M H	9 00 9 90 9 66
1	M 1	884	L H mh M	11 00 18 00 17 00 14 00	Massachusetts, .	M M	1887 1883	L M H mh	6 90 10 50 10 50 9 48
	м 1	885	L H mb	11 00 18 00 17 00			1885	M ml L	8 40 7 00 6 00
	м 1	886	M L H mh	11 00 26 00 21 00		M	1800	mh M ml	14 52 12 00 10 20 7 95
	F		M ml L M	18 00 15 00 11 00 7 50		M	1886	L H M ml	5 70 11 04 9 00 7 98
		887	H mh M	18 00 17 00 14 00		М	1891	L H mh	6 00 14 00 12 25
	М 1	888	H mh M	11 00 40 00 30 00 23 20	Missouri,	М	1870	M ml L M	10 50 9 00 7 50 14 00
		881 882	mi L M M	14 00 6 00 13 50 12 00		M M M	1871 1872 1878 1874	M M M	12 00 12 00 13 50 12 00
Foreign Countries.	- -		_			M	1875	M	12 50
-	M 1	865	м	3 57		M	1876	M	12 00
	M 1	866	M	4 10		M	1878	M	8 00
		867 868	M	4 00 5 00		M	1879 1880	M	8 00 8 00
	M 1	869	M	5 23	New Hampshire, .	M	1886	H	10 50
	M 1	870 871 872	M M	5 35 6 07 6 18	New Jersey,	M	1882	H L	8 22 12 50 10 00
	MI	873 874	M	6 66 7 14		M	1883	H	10 00 9 00
1	M 1	875 884	M H L	7 61 8 40 4 20		M	1884	H L H	9 00 8 00 9 00
				~~	•	"	1000	M	8 00
Piremen (Cotton, Woollen, And Other Tex-						M	1886	L H M	7 00 10 00 9 00
TILES).						м	1888	L	8 00 9 00
United States.	, I.	886	н	14 40	New York,	M	1886	H	10 98
•	-	888	L H	9 00 18 00		м	1888	L H	8 64 6 60 15 00
	M 1	890	M L M	15 00 13 85 15 00				mh M	12 00 10 50
		874	H mh M	13 50 12 00 9 00	North Carolina, .	M	1886	ml L H L	8 10 5 76 6 00 4 50
			ml L	7 82 6 36		M	1887	H	6 00 4 50
	M 1	886	H	12 00	Pennsylvania,	М	1877	M	9 00
	M 1	887	L H	9 00 11 42		M	1878 1886	M M	9 00 10 50
Delaware,	M 1	886	L M	10 35 6 96		M	1888	H L	15 00 8 10

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Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weckly Wages
Firemen (COTTON, WOOLLEN, AND OTHER TEX. TILES)—Con. United States—Con. Rhode Island,. United States (not specified),	M M M M M M M M M M M M M M M M M M M	1882 1887 1877 1886 1886 1885 1882 1882 1883 1849 1857 1858 1859 1861 1863 1861	иммимитимм мм	\$10 66 8 00 7 80 9 00 6 60 4 95 9 73 6 00 2 70 3 84 4 4 32 4 32 4 32 4 32 4 32 4 80	Firemen (COTTON, WCOLLEN, AND OTHER TEXTILES)—CON. Foreign Countries—Con. Italy, Poland, Scotland, Scotland, Firemen (Food Preparations).	M M M M M M M M M	1886 1882 1856 1857 1858 1860 1861 1863 1886 1877 1880 1882	HILMMHIMMHIMMHIMMHIM	\$3 48 2 34 2 54 2 64 2 64 3 48 4 30 3 12 4 80 6 00 6 00 3 84 4 92 8 60 6 00 3 84 4 92 8 60 6 80 8 60 8 60 8 60 8 60 8 60 8 60
	M M M M	1868 1874 1877 1878 1879 1880 1882 1883 1884 1885 1886		2 04 4 80 3 60 6 72 5 4 08 5 5 24 3 84 5 5 84 8 16 5 5 28 5 10 6 00 6 40 4 46 4 34 4 44	United States. California,		1861 1862 1863 1864 1865 1866 1869 1870 1871 1872 1873	ТНІНІНІНИКККККККККК	18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00
England and Scotland,		1886 1870 1882 1883 1885 1886 1882 1886 1880 1883 1886 1882 1885 1882	HIMHIHIMMHIHIHIHIMMMMM	5 76 4 32 4 62 8 00 5 04 5 10 4 62 2 50 4 62 2 50 4 38 3 09 3 63 5 11 5 28 4 00 3 63 6 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	Colorado,		1876 1877 1878 1879 1880 1885 1886 1869 1870 1871 1872 1873 1874 1875 1876 1877	HIHIHIHIMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	18 00 15 00 18 00 18 00 18 00 18 00 18 00 18 00 15 00

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Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Firemen (FOOD PREPARATIONS) —Con.					Firemen (FOOD PREPABATIONS) —Con.				
United States - Con.	l	1		}	United States - Con.				
Colorado,	M	1879 1880	M	\$15 00 15 00	Maine,	M	1875	Ŀ	\$6 00
Illinois,	M	1850	M	4 50		M	1876	H	12 00 6 00
	M	1851 1852	M	4 50 4 50		M	1877	H	12 00 6 00
	M	1853	M	4 50		м	1878	H	12 00
	M	1854 1855	M	4 50 4 50		M	1879	L M	6 00
	M	1856	M	4 50		M	1880	M	12 00
	M	1857 1858	M	4 50 4 50	Massachusetts, .	M	1885	H	11 00 7 50
	M	1859	M	4 50 6 00		М	1891	H	15 00
	M	1860 1861	M	4 50				mb M	13 50 12 00
	M	1862 1863	M	6 00				ml	10 00
	M	1864	M	7 50 10 50	Michigan,	м	1884	L M	9 00
	M	1865 1866	M	10 50 12 00	Minnesota,	M	1875 1876	M	11 52 9 24
	M	1867	M	12 00		M	1877	M	9 24
	M	1868 1869	M	12 00 12 00		M	1878 1879	M	9 24 9 90
	M	1870	M	12 00		KKKKKK	1880	M	9 90
	M	1871 1872	M	12 00 12 00	Missouri,	M	1871 1872	M	18 00 18 00
	M	1873	M	12 00		M	1873	M	18 00
	M	1874	H M	12 00 10 50		M	1874 1875	M M	18 00 18 00
	м	1000	L	8 28		M	1876	M	18 00
		1875	H	12 00 10 50		M	1877 1878	M	18 00 18 00
	M	1876	L H	8 28 10 00		M	1879 1880	M	18 00
			L	8 28		M	1886	H	18 00 17 10
	M	1877	H	10 00 8 28		м	1887	L M	12 00 12 00
	M	1878	H	10 00		M	1890	н	14 34
	M	1879	H	8 10				M L	12 00 10 32
	м	1880	L	8 10	Nevada,	M	1873	M	12 00
			H L	12 00 8 10		M	1874 1875	M M	12 00 12 00
	M	1881 1885	M	8 28 12 00		M	1876	M	12 00
	M	1886	H	18 98		M	1877 1878	M. M	12 00 10 50
	ł		M ml	12 00 9 00		M	1879 1880	M	10 50 10 50
	١		L	7 50	New York,	M	1868	M	9 00
Indiana,	M	1870 1871	M M	15 00 15 00		M M	1869 1870	M	9 00
	M	1872	M	13 50		M	1871	M	9 00
	M	1878 1874	M	13 50 12 00		M	1872 1873	M M	9 00
	W	1875 1876	M	10 50 9 00		M	1874	M	9 00
	M	1877	M	9 00	1	M M M	1875 1876	M M	9 00
	M	1878 1879	M	9 00	1	M	1877 1878	M M	9 00
Maine,	M	1866	M	12 00	1	M	1879	M	10 50
	M	1867 1868	M	12 00 12 60		M M	1880 1885	M M	10 50 10 50
	M	1869	M	12 00		M	1888	H	18 00
	M	1870 1871	M M M	12 00 12 00				mh M	15 00 12 46
	M	1872	M	10 50 12 00				ml	10 20
	M	1873 1874	H	12 00	Ohio,	м	1877	H	7 50 9 00
	M	1875	H	6 00 12 00		м	1879	L M	7 50 8 10
	\Box			'		_	10.0		3 10
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Occupations,					Occupations,				
STATES, AND COUNTRIES.	Sex	Years	Grade	Weckly Wages		Sex	Years	Grade	Weekly Wages
Firemen (FOOD PREPARATIONS) —Con.					Firemen (GAS AND RESIDUAL PROD- UCTS) — Con.				
United States - Con.					United States - Con.	ŀ		Į	
Ohio,	M	1882 1886	M M	\$11 04 13 98	Maine,	M	1876 1877	M	\$12 00 12 00
Pennsylvania,	MMMMMM	1873 1874 1875 1876 1877 1878 1879 1880	M	13 98 7 50 7 50 7 50 7 50 9 00 9 00 9 00 10 50	Massachusetts, .	M M M M	1878 1879 1880 1885	M M M H mh M ml	12 00 10 50 10 50 15 90 13 85 11 54 9 36 7 20
Foreign Countries.	_		-		i	M	1891	H	18 20
England,	м	1861	M	5 40		j		mh M	16 00 14 00
	M	1866 1877 1880	M H M L H L	5 52 7 26 5 76 4 56 7 20 4 80	New Jersey,	M M M	1867 1868 1869 1870	E) L M M M	12 00 10 00 10 50 12 00 12 00 12 00
	M	1883	й	5 76		M	1871	M	12 00
Germany, Great Britain, Scotland,	M M M	1883 1883 1866	M M H L	5 34 5 84 5 28 3 84		M M M M	1872 1873 1874 1875	M M M M	12 00 12 60 12 60 12 00
	M	1880	M M	6 00		M	1876	M	12 00 12 00
	.	1883	м	6 12		M	1877 1878	M	12 00
Firemen (GAS AND RESIDUAL PROD- UCTS).					New York,	M M M	1879 1880 1888	M M H mb	12 00 12 00 18 00 16 50
United States.	١.,						1	M	15 00 12 75
Connecticut,	M	1874	H mh M L	15 00 13 98 12 00 9 72	Ohio,	М	1877	ml L M	10 50 13 30
Indiana,	M	1852	M	6 00	Foreign Countries.	1			
	M	1853 1854	M	6 00	Austria,	М	1885	M	8 00
	M	1855 1856	M	6 00	England,	M	1840 1850	M	5 04 4 76
	M	1857	M	6 00		M	1856	M	5 76
	M	1858 1859	M M	6 00		M	1858 1860	M	5 76 6 72
	M	1860	M	6 00		M	1861	M	5 16
	M	1861 1862	M M	6 00		M	1862 1866	M	5 76 5 40
	M M	1863 1864	M M	9 00		M	1868 1871	M	8 16 8 16
	M	1865	M	12 00		M	1877	H	9 60
	M	1866 1867	M	12 00 12 00		M	1880	L H	7 20 10 08
	M	1869	M	12 00		-		M	8 40
	M	1869 1870	M M	12 00 12 00		м	1883	H	6 12 9 16
	M	1871 1872	M	12 00 13 50	Great Britain,	М	1880	L H	7 20 10 89
	M	1873	M	13 50	Gross Dilleans,	148	1300	mh	9 56
	M	1874	M M	13 50 13 50	1		1	M ml	8 47 7 26
	M	1876	M	12 60	Incland	W	1871	I.	6 18 6 48
	-	1877	H L	10 80	Ireland,	M		L	5 04
	M	1878	H	12 60 10 80		M	1874 1877	M	8 40 8 40
	M	1879	H	12 60	1	M	1880	H	10 80
	M	1880	H	10 80 ' 12 60				L	9 60 8 40
	1	1	Ĺ	10 80	1	M	1883	M	8 40

Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Firemen (GAS AND RESIDUAL PROD- UCTS) — Con. Foreign Countries					Firemen (Lum- BER) — Con.				
Con.					United States - Con.				
Ireland,	M M M	1885 1866 1880 1883	M M M M	\$6 83 5 76 7 84 7 92	Massachusetts, .	M	1891	mb M ml L	\$12 00 11 00 9 00 7 50
Firemen (Liquors: Malt, Distilled, AND FERMENTED).					Michigan,	M	1884	H M ml L H	27 00 15 00 12 00 9 90 16 50
United States.			i '					mh M	15 00 12 00
Illinois,	M	1886 1883	H L H M	12 00 9 00 12 50 11 25		м	1886	ml L H L	9 75 7 50 18 50 12 00
	M	1885 1891	L M H mh	10 00 12 69 16 00 15 00	Missouri,	M	1890	H mh M	15 00 10 98 9 96 6 78
Michigan,	м	1884	M ml L M	12 00 11 00 7 50 12 00	New Jersey, New York,	M	1888 1888	L M H	4 82 9 00 12 00 10 50
Missouri,	M M	1887 1890	H L M	15 00 11 54 12 96	Ohio,	M M	1874 1875	L M M M	5 00 10 50 10 50
New York,	M	1883	H L	11 52 10 38		M	1876 1877	M	9 00
	M	1884	H L	11 52 10 38		M	1878 1879	M	9 00
	M	1885	H L	11 52 10 38		M	1880 1882	M	10 50 8 28
	M M M	1886 1887 1888	M M H mh	12 66 15 00 23 07 20 00	Pennsylvania,	M	1876	H mh M L	13 50 12 00 10 50 7 50
			M	17 00 14 00		M	1877	Ĥ L	12 00 10 50
	м	1889	L M	10 88 12 00		M	1878	H	10 50 9 00
Ohio,	M	1882 1886	M H L	9 67 18 68 9 00		M	1879	H mh M	15 00 13 50 12 00
Pennsylvania,	M	1883 1888	M H mb M ml	7 50 18 00 16 00 13 50 11 40		M	1888	L H mh M M	10 50 15 00 13 50 12 00 10 50
Foreign Countries.			L	8 88	Virginia,	M	1886	L M	9 00 7 50
Bohemia,	M	1885	M	2 70	West Virginia, .	M	1886	M	7 50
Great Britain,	M	1883	M	5 96	Firemen (METALS AND METALLIC GOODS).				
BER).					United States.				
United States. Alabama	М	1876	м	6 00	Alabama, Connecticut,	M	1886 1874	M	7 50 6 00
	M M	1877 1878	M M	6 00 6 00		M	1887	H	15 00 10 50
	M M	1879 1880	M	6 00 6 00	Illinois,	M	1873	H	15 00 12 00
California,	M	1886 1886	M	13 50 10 80		M	1874 1875	H	9 86 13 50
Massachusetts, .	M	1885	H	13 00 12 00		M	1876	L	12 00 18 50
	M	1891	L	9 00 14 00		м	1877	L	12 00 18 02

	GRA	OFF	WE	EKLY	WAGES - Conti	nuec	1.		
OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Firemen (METALS AND METALLIC GOODS) — Con.					Firemen (METALS AND METALLIC GOODS) — Con.				
United States - Con.		1			United States - Con.	ĺ		1	
Illinois,	M	1877 1878	L	\$10 50 12 00	New York,	M	1888	L H	\$8 52
•			H L	10 50	Ohio,	_	1877	mh	12 00 10 50
	M	1879 1880	M	12 00 13 50		1		M	9 40 7 70
	M	1886	H	10 80		!		ml L	7 70 6 50
T			L	9 30		M	1879	M	6 00
Indiana,	M	1886	H L	9 60 7 20		M	1880 1881	M.	8 22 10 98
Kentucky, Maryland,	M	1886 1886	M M	9 00 12 84		M	1882	M	10 82
Massachusetts.	M	1865	M	9 00		M	1886	H	10 20 8 10
	M	1870 1875	M	10 50	D		1000	L M	6 00
	M	1880	M	10 50 8 22	Pennsylvania,	M	1860 1861	M	6 72 6 30
	M	1883	M	10 50		M	1862	M	6 60
	-	1885	H	15 00 10 32		M	1868 1864	M	8 10 10 50
			ml	9 00 7 80		M	1865	M	10 80
	M	1891	H	7 80 12 00		M	1866 1867	M M M	11 40 11 70
		ŀ	M	10 00 9 00		M	1868	M	11 70 11 70
Michigan,	M	1884	L H	10 50		M	1869 1870	M i	11 70 11 70
	M	1889	L H	8 70		M	1871	M	12 00
		1008	mh	12 92 10 38		M	1872 1873	H	12 00 12 60
			M	8 31		1	i	L	10 00
	M	1891	H	8 46 12 00		M	1874	L L	12 00 9 90
Missouri,	м	1871	L M	9 00 13 50		M	1875	H	12 00 9 00
missouri,	M	1872	M	13 50		M	1876	H	12 00
	M	1873 1874	M M	12 00 12 90			!	mh M	10 20 8 40
	M	1875	M	12 75		1		ml	6 72
	M	1876 1877	M M	11 40 11 10		м	1877	L H	5 10 12 38
	M	1878	M	10 50			10	mh	10 50
	M	1879 1880	M M	9 75 10 50				M L	9 00 6 00
	M	1890	H	14 04		М	1878	Ĥ	12 00
			mh M	12 00 10 86				mb Ma	10 20 8 50
			ml	8 94		1	Ì	mil	6 60
New Jersey,	M	1882	H	7 68 10 50		м	1879	H	4 80 10 50
	1		L	9 00		_		mh	9 30
	M	1883	H	20 00 12 00		ł		M ml	8 10 6 90
			mi	10 00				L	5 70
	м	1884	H	7 50 10 73		M	1880	H mh	12 00 10 50
			M L	9 00			ŀ	M	9 00
	M	1885	H	8 00 9 00				ml L	7 50 6 00
			M	6 60 5 50		M	1881	H	10 44
			ml L	4 50		M	1882	L H	13 50
	M	1886	H M	10 00 7 15		1	1	M T.	10 44 9 00
			ml	6 00		M	1883	H	10 62
New York,	м	1886	L M	5 00 9 00		1		M L	9 60 8 28
·	M	1887	M	15 00		M	1884	H	11 22
	M	1888	H mb	15 00 13 89				mh M	9 60 8 40
			M	12 60	}	1		ml	6 60
	1		mi	10 50		1		L	5 65
						<u>: </u>	<u> </u>	<u> </u>	

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	Occupations, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Firemen (METALS AND METALLIC GOODS) — Con.					Firemen (Paper And Paper Goods) — Con.				
United States - Con.	1	1			United States - Con.	1			l
Pennsylvania,	M	1886	H L	\$10 20 8 70	Connecticut,	M	1859 1860	M M	\$5 52 5 52
Tennessee,	M	1888 1871 1872	H mh M ml L M	21 00 18 30 13 80 10 80 7 92 15 00 15 00		M M M M M M M M	1861 1862 1863 1864 1865 1866 1867	MKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	5 52 5 52 6 00 9 00 9 00 12 00 12 00 12 00
	M	1873 1874	M	15 00 10 50		M	1868 1869	M	12 00
ı	MMM	1875 1876 1877 1878 1879	M M M M	9 00 9 00 9 00 9 00 8 10		M M M	1870 1871 1872 1873 1874	M M M M	12 00 12 00 13 50 12 00 12 00
	M	1880	M	9 00		M	1875	M	12 00
Virginia,	M	1886	H	8 40 6 48		M M M	1876 1877	M	12 00 10 80
West Virginia, .	M	1873 1874	M M	12 72 12 72		M	1878 1879	M	7 50 7 50
	M	1875	M	12 00		M	1880	M	8 40
	M	1876 1877	M	12 00 12 00	Delaware,	M	1860 1864	M M	7 50 12 00
	M	1878	M	10 80 10 80		M	1870 1877	M	12 00 10 50
	M	1879	H L	4 50		М	1880	M	12 00
	M	1880	H	10 80 5 70	Georgia,	M	1860 1861	M	4 50 4 50
Foreign Countries.	l		~	"		M	1862 1863	M	4 50 9 00
Austria,	M	1885	M	3 05		M	1864	M	12 00
Belgium, Bohemia,	M	1886 1885	M	4 20 4 03		M	1865 1866	M M	3 00 6 00
-			L	2 00		M	1867	M	6 60
England,	M	1866 1874	M	3 36 4 80	İ	M	1868 1869	M M	6 00
	M	1878	H	10 92 7 20	ĺ	M	1870 1871	M M	6 00 6 00
	M	1879	M	10 92		M	1872	M	6 00
	M	1880	H	5 76 4 56		M	1873 1874	M M	6 00 6 00
	M	1883	H M	10 80 7 20		M	1875 1876	H	6 00 6 00
			L	4 92				L	8 66
Great Britain, Bootland	M	1886 1840	M	4 80 3 36		M	1877	L	6 00 3 66
	M	1850 1860	M	8 60 3 60		M	1878	H L	6 00 3 66
	M	1861	M	4 80		M	1879	M	4 50
	M	1877	M	5 76 6 12		M	1880	H	6 00 3 66
	M	1883	L H	5 04 5 76	Illinois,	M	1876 1877	M M	9 00 8 25
_	AM.	1000	Ĺ	4 44		M	1878	M	7 50
Firemen (Pa- PER AND PAPER	ł	İ				M	1879 1880	M M	7 20 8 25
Goods).		1			Indiana,	M	1860	M	7 00
United States.		1	1			M	1861 1862	M M	7 00 7 00
Connecticut,	M	1850 1851	M	5 10 5 10		M M	1863 1864	M M	7 00 7 00
	M	1852	M	5 10		M	1865	ML	7 00
	M	1853 1854	M	5 10 5 10		M	1866 1867	M	8 00 8 00
	M	1865	M	5 10		M	1868	M M	8 00 9 00
	M	1856 1857	M	5 52 5 52		M	1869 1870	M	9 00
	M	1858	M	5 52	i	M	1871	M	9 00

	G A D D	DEL	- '' -		WAGES - COLU				
OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Firemen (Paper Goods) — Con.					Firemen (Paper And Paper Goods) — Con.				
United States - Con.	ł	l			United States - Con.	ŀ	ĺ	1	
Indiana,	M	1872	M	\$9 00 7 00	Massachusetts, .	M	1879	H	\$10 50
	M	1873 1874	M H	7 00	İ	м	1880	H	7 98 10 50
	""	10.4	Ĺ	6 00		_	1000	M	9 48
	M	1875	H	9 00				L.	8 22 14 00
	M	1876	H	9 00		M	1885	H mh	12 00
		ĺ	L	5 00			ł	M	10 00
	M	1877	H	9 00 5 00	ţ	ŀ	İ	ml	8 22 6 00
	M	1878	L H	9 00	İ	м	1886	L	9 00
	1		L	5 00		M	1891	H	18 00
	M	1879	H	9 00 5 00		ļ	1	IL	12 00 9 75
	M	1880	H	9 00	Michigan,	м	1884	H	15 00
		ı	L	6 00			i	M	11 10
Maine,	M	1871 1872	M M	7 50 7 50	New Hampshire, .	м	1864	L	9 00
	M	1873	M	7 50	new Mampanie, .	M	1865	M	6 00
	M	1874	M	7 50		M	1866	M	6 00
	M	1875	H L	10 50 7 50		M M	1867 1868	M	6 00
	M	1876	Ĥ	9 90		M	1869	M	6 00
	١.,		L	6 48		M	1870	M M .	6 00
	M	1877	H	9 90 6 48		M	1871 1872	M.	6 60
	M	1878	Ĥ	9 00		M	1878	M	6 00
	1.	1050	Ľ	6 48		M	1874	H	8 10
	M	1879	H	9 00		м	1875	L	6 00 8 10
	M	1880	H	10 02	İ	M	1876	M	8 10
	M	1886	I. M	7 50 10 50		M	1877 1878	M	7 50 7 50
Maryland,	M	1885	M	10 50 7 50		M	1879	M	7 50
Massachusetts, .	M	1861	M	6 00	l	l Mr	1880	M	7 50
	M	1864 1865	M	7 50 9 00	New Jersey,	M	1861 1862	M	9 00
	M	1866	H	12 00		M	1863	M	9 00
		1	L	9 72		M	1864	M	9 00
	M	1867	H	15 00 10 02		M	1865 1866	M	9 30
	M	1868	ñ	15 00		M	1867	M	9 00
	١,,	1000	L	10 02 15 00		M	1868 1869	M	9 00
	M	1869	H M	10 50		M	1870	M	7 50
			L	9 00 1		M M M	1871	M	7 50
	M	1870	H L	15 00 10 02		M	1872 1873	M M	7 50 7 50
	М	1871	H	15 00		M	1874	M	7 50
	1		M	12 00		M	1875	M M	7 60 9 00
	М	1872	H	10 02 15 00		M	1876 1877	M	9 00
	1		M	12 00		M	1878	M	9 00
		1	ml L	10 50 9 00		M M	1879 1880	M	9 00
	М	1873	H	15 00	l	M	1882	M	10 50
			M	12 00		М	1883	H	11 00
	M	1874	L H	10 02 12 00				M L	10 00 9 00
	1		L	10 02		М	1888	M	13 50
	M	1875	H	12 00	New York,	M	1850	M	9 00
	М	1876	H	10 00 10 50		M	1851 1852	M M	9 00
			L	9 00	1	M	1853	M	9 00
	M	1877	H	10 50 9 00		M	1854 1855	M M	9 00
	l		M L	7 98	İ	M	1856	H	9 00
	M	1878	H	10 50		l		L	6 00
		l	L	7 98		M	1857	H	9 00
	1	<u> </u>	<u> </u>	l	<u> </u>		<u> </u>		

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	8ex	Years	Grade	Weekly Wages
Firemen (Pa- PER AND PAPER GOODS) — Con.					Firemen (Paper AND Paper Goods) — Con.				
United States - Con.					United States - Con.				
New York,	M	1857 1858	L M	\$6 00 6 00	Ohio,	M	1877	H M	\$13 50 10 50
	M	1859	Н	9 00				L	9 00
	м	1860	L H	6 00 9 00		M	1878	H	12 00 10 50
	м	1861	L H	6 00 9 00				ml L	9 00 7 98
			L	6 00		M	1879	H	10 50
	M	1862	H L	9 00 6 00		İ		M L	9 00
	M	1863	H L	10 50 6 78		M	1880	H	12 00
	M	1864	H	10 50		ŀ		M ml	10 60 9 00
	М	1865	L H	7 50 10 50		м	1881	H	7 98 12 00
	М	1866	L	9 00		-	1332	mh	10 50
			H L	10 50 9 00				M L	9 00 7 50
	M	1867	H L	10 50 9 00	Pennsylvania,	M	1882 1858	M	8 88 6 00
	M	1868	H	10 50		M	1859	M	6 00
	M	1869	L H	9 00 10 50		M	1860 1861	M M	6 00
	м	1870	L H	9 00 10 50		M M	1862 1863	M	6 00 7 00
	M	1871	L	9 00		M	1864	M	10 00
	M	1872	M H	10 50 12 00		M	1865 1866	M H	11 00 10 00
			M L	10 50 9 00	Ì	M	1867	L H	6 60 . 10 00
	M	1873	н	12 00			'	L	6 60
			M L	10 50 9 00		M	1868	H	10 00 6 60
	M	1874	H M	12 00 10 50		M	1869	H	10 00 6 60
			L	9 00	ļ	M	1870	н	10 00
	M	1875	H	12 00 10 50		M	1871	L H	6 60 10 00
	M	1876	L	9 00 12 00		-	1872	L	6 60
	_	1010	M	10 50	ļ	M		H L	10 00 6 60
	м	1877	H	9 00 12 00		M	1878 1874	M H	7 38 10 00
	M	1878	L	9 00 12 00		_	20.2	M T.	7 38
			L	9 00		M	1875	H	10 00
	M	1879	H L	12 00 9 00				M L	7 38 6 00
	M	1880	H M	12 00 10 50		M	1876	H	9 90
			L	9 00		M	1877	H	8 10
	M	1888	H mh	14 00 12 00		M	1878	L H	6 60 9 90
			M	10 50				L	6 60
			ml L	9 00 7 50		M	1879	H L	9 90 6 00
Ohlo,	M	1872 1878	M H	10 50 15 00		M	1880	H	10 00 6 60
	-		M	10 98		M	1888	н	15 00
	M	1874	H	9 00 15 00				M L	10 98 7 50
			M L	10 50 9 00	Virginia,	M	1871 1872	M M	9 00
	M	1875	H	15 00		M	1873	M	9 00
			M L	10 50 9 00		M M	1874 1875	M	9 00
	M	1876	H	15 00 10 50	Wisconsin,	M	1876 18 6 0	M M	9 00
			L	9 00	Wisconsin,	M	1861	M	6 00

Occupations		UIVE				WAGES - COLUI		••		
### RAND PAYER GOODS Con. United States - Con. Wisconsin, M 1862 M 86 00 M 1863 M 9 00 M 1865 M 9 00 M 1865 M 10 50 M 1877 M 10 50 M 1877 M 10 50 M 1877 M 10 50 M 1877 M 10 50 M 1875 M 10 50 M 1875 M 10 50 M 1876 M 1870 M 1	STATES, AND COUN-	Sex	Years	Grade	Weekly Wages	STATES, AND COUN-	Sex	Years	Grade	Weekly Wages
Royland Royl	PER AND PAPER Goods) — Con. United States - Con.	M M M M M M M M M M M M M	1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1878 1874 1875 1876 1877	M M M M M M M M M M M M M M M M M M M	6 00 9 00 10 50 10 50 9 00 7 50 6 75 6 75 6 75 6 75 6 75 7 50	AND SHOES) - Con. United States - Con. Indiana,	MMMMMFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	1874 1875 1876 1877 1878 1880 1886 1852 1853 1854 1855 1856 1857 1858 1859 1860	M M M M M M M M M M M M M M M M M M M	10 50 10 50 10 50 10 50 10 50 10 50 11 40 11 40 15 00 4 50 4 50 4 50 4 50 4 50 4 50 4 50
M 1880 M 6 00 F 1868 M 12 00	Foreign Countries.						F		M	9 00
Section March 1883 March 6 90	England,						F	1867	M	9 00
Scotland,	Great Britain.	M	1883	M	6 90		F	1869	M	12 00
M 1883 H 6 00 M 1872 M 5 10 M 1873 M 10 50 M 1875 M 5 10 M 1875 M 5 10 M 1876 M 1876 M 1878 M 16 50 M 1877 M 9 00 M 1879 M 9 00 M 1886 M 1875 M 9 00 M 1879 M 9 00 M 1879 M 1870 M 1875 M 9 00 M 1876 M 1876 M 9 00 M 1879 M 9 00 M 1879 M 16 50 M 1879 M 9 00 M 1879 M 9 00 M 1879 M 9 00 M 1879 M 9 00 M 1879 M 1870 M 18		M	1866	M	4 32		F	ļ	M	12 00
Maryland				H	6 00	1	M	1872	M	5 10
Fitters (Boots And Bhous)		M	1885	M			M	1919	M	7 50
Connecticut, F 1887 M 6 82 M 1861 H 7 50 Illinois, M 1875 M 9 00 M 1877 M 9 00 M 1878 M 9 00 M 1878 M 9 00 M 1879 M 9 00 M 1880 M 9 00 M 1880 M 9 00 M 1880 M 15 00 M 1861 M 15 00 M 1862 M 15 00 M 1862 M 15 00 M 1863 M 15 00 M 1866 M 15 00 M 1866 M 15 00 M 1866 M 15 00 M 1866 M 15 00 M 1866 M 15 00 M 1866 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1871 M 13 50 M 1870 H 10 50	and Shobs). United States.	M M M M M M M	1876 1877 1878 1879 1880 1885 1886	M M M M M H L M H M	16 50 16 50 16 50 16 50 16 50 13 50 12 00 9 00 16 00 12 50 9 00	Maryland,	M M F M F M F M M F M	1875 1876 1877 1878 1879 1880 1850 1855	M M M M M M M M M M M M M M H I I	5 10 10 50 5 40 9 00 5 70 9 00 6 00 9 00 6 00 7 50 9 00 4 50 9 00 4 50
Illinois, M 1875 M 9 00 M 1862 H 7 50 M 1877 M 9 00 M 1863 H 2 9 00 M 1878 M 9 00 M 1863 H 9 00 M 1878 M 9 00 M 1864 H 9 00 M 1880 M 9 00 M 1864 H 9 00 M 1860 M 15 00 M 1861 M 15 00 M 1863 M 15 00 M 1865 H 9 00 M 1862 M 15 00 M 1865 H 9 00 M 1865 M 15 00 M 1865 H 9 00 M 1865 M 15 00 M 1865 H 9 00 M 1865 M 15 00 M 1866 H 10 50 M 1866 M 15 00 M 1866 M 15 00 M 1866 M 15 00 M 1867 H 10 50 M 1868 M 18 00 M 1868 M 15 00 M 1868 H 10 50 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 15 00 M 1869 M 13 50 M 1870 M 1870 M 15 00 M 1871 M 13 50 M 1870 M 1870 M 15 00 M 1871 M 13 50 M 1870 M 1870 M 15 00 M 1870 M 1870 M 15 00 M 1871 M 13 50 M 1870 M 1870 M 15 00 M 1870 M 1870 M 15 00 M 15 00 M 15	Connecticut	F	1887	L	3 00		ł	"	L	4 50 7 50
M 1877 M 9 00 M 1863 H 9 00 M 1878 M 9 00 M 1864 H 9 00 M 1864 H 9 00 M 1864 H 9 00 M 1865 H 9 00 M 1865 H 9 00 M 1865 H 9 00 M 1865 H 9 00 M 1865 H 9 00 M 1865 H 9 00 M 1865 H 9 00 M 1865 H 10 50 M 1865 M 15 00 M 1866 H 10 50 M 1866 M 1865 M 15 00 M 1867 H 10 50 M 1868 M 13 50 M 1868 H 10 50 M 1868 M 13 50 M 1869 H 10 50 M 1869 M 13 50 M 1869 H 10 50 M 1871 M 13 50 M 1870 H 10 50 M 1871 M 13 50 M 1870 H 10 50 M 1870 H 10 50 M 1871 M 13 50 M 1870 H 10 50 M 1870 H 10 50 M 1871 M 13 50 M 1870 H 10 50 M 1870 M	Illinois,	M	1875	M	9 00			1	L	4 50
Marcol M		M	1877	M	9 00				L	4 50
Indiana, M 1860 M 15 00 M 1861 M 15 00 M 1862 M 15 00 M 1866 M 15 00 M 1866 M 15 00 M 1866 M 15 00 M 1866 M 15 00 M 1866 M 15 00 M 1867 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1869 M 15 00 M 1870 M 15 00 M 1870 M 15 00 M 1870 M 15 00 M 1870 M 15 00 M 1870 M 15 00 M 1870 M 15 00 M 1870 M 15 00 M 1870 M 10 00 M 1870 M 10 00 M 1870 M 10 00 M 1870 M 10 00 M 1870 M 10 00 M 1870 M 10 00 M 1870 M 10 00 M 1870 M 10 00 M 1870 M 10 00 M 1870 M 10 00 M 1870 M 10 00 M 1870 M 10 00 M 10		M	1879	M	9 00				L	6 00
M 1862 M 15 00 M 1866 H 10 50 M 1866 M 15 00 M 1866 M 15 00 M 1866 M 15 00 M 1866 M 15 00 M 1866 M 15 00 M 1867 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1868 M 15 00 M 1869 M 13 50 M 1869 M 13 50 M 1870 M 1870 M 13 50 M 1870 M 10 50	Indiana,	M	1860	M	15 00				L	6 00
M 1864 M 15 00 M 1867 H 10 50 M 1868 H 10 50 M 1868 H 10 50 M 1868 M 13 50 M 1870 M 1871 M 13 50 M 1870 H 10 50 M 1870 M 18		M	1862	M	15 00				L	6 00
M 1866 M 15 00 M 1868 M 15 50 M 1868 M 15 50 M 1869 M 13 50 M 1869 M 13 50 M 1870 M 1871 M 13 50 M 1871 M 13 50 M 1870 M		M	1864	M	15 00				L	7 50
M 1868 M 13 50 M 1869 H 10 50 M 1870 H 10 50 M 1871 M 13 50 M 1870 H 10 50			1865 1866	M	15 00 15 00	1		i	L	7 50
M 1869 M 13 50 M 1869 H 10 50 M 1870 M 13 50 M 1870 H 10 50 M 1871 H 10 50 M 1870 H 10 50 M 10 50		M	1867	M	15 00		M	1868		10 50
M 1871 M 13 50 M 1870 H 10 50	İ	M	1869	M	13 50		М	1869	H	10 50
		M	1871	M	13 50		M	1870	н	10 50
			****			l	<u> </u>	<u> </u>		

GRADED WEEKLY WAGES -- Continued.

	GRA	DEL	WE	EEKLY	WAGES Conti	nue	i.		
Occupations, States, and Coun- triks.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Fitters (Boots and Shors) - Con.					Fitters (Boots AND SHOES)-Con.				
United States - Con.	l		1		United States - Con.	1		1	
Maryland,	M	1871	H L	\$10 50 7 50	Massachusetts, .	M	1885	M L	\$12 00 5 77
	M M M	1872 1874 1875 1876	H L H L H L	10 50 7 50 10 50 8 25 10 50 8 25 10 50		F M	1886	H mh M M L H mh	12 00 10 50 8 00 6 00 4 00 16 92 15 00
	M	1877	L H	8 25 10 50 8 25				M ml	18 50 10 50 9 00
	M	1878	L H	10 50		F		H	0.00
	M	1879	L H	8 25 10 50		м	1891	L H	7 20 18 00
	M	1880	L H L	8 25 10 50 8 25		_	1091	mh M	16 00 18 50
	M	1885	H	10 50 8 25		F		mi L H	19 50 7 50 10 50
	M	1886	H	12 00				L	6 00
	F		L H L	8 52 6 96 4 98	Minnesota,	M M	1887 1890 1881	M	5 84 6 54 14 85
Massachusetts, .	F	1837 1838	M	8 00 8 00		١.	1	M L	9 00 6 00
	M	1851	M M M	3 00		F		M.	6 48
	M	1852 1853	M	3 00 3 00		M	1882	H	9 00
	M	1854 1855	M	3 00 3 00		F	· '	H M	12 50 7 50
	M	1856	M M	8 00				L	3 00
	M	1857 1858	M M	3 00 8 00		М	1883	H L	10 00 7 00
	M	1859	M	3 00		F		H	10 00
	M	1860 1861	M M	8 00 3 00				mh M	9 00 7 00
	M	1862	M	6 00	1			ml	5 00
	M	1863 1864	M	7 50		м	1884	H	4 00 15 00
	M	1865 1866	M	7 50 12 00				mh M	12 00 9 64
	M	1867	M	12 00				ml	7 00
	M	1868 1869	M M	12 00 16 02		F		L H	4 00 12 00
	M	1870	H	16 02 12 00		_		mh M	10 00
	M	1871	H	16 02				ml	6 00
	М	1872	L H	12 00 16 02		M	1885	L H	4 00 16 00
	,		L	12 00		_	1000	mh	14 00
	M	1873	H L	16 02 11 80				M L	10 00 4 50
	M	1874	н	12 00 10 67		F		H	12 00 10 00
	M	1875	H	12 00				mh M	8 00
	M	1876	L H L	10 57 12 00 10 00		м	1886	ml L	6 00 4 00 20 00
	M	1877	M	10 00		.m.	1090	H mh	16 00
	M	1878 1879	M H	10 50 10 50				M ml	12 00 8 00
		l .	L	9 00		ا ـ ا		L	5 00
	M	1880 1883	M H	9 80 18 00	ļ	F		H mh	9 96 8 00
	Ι .		mh	15 00				M	7 00
			M ml	12 48 10 00				mi L	6 00 4 00
	м	1885	L H	7 00 21 00		M	1888	M M	15 00 7 50
	"	1000		00		•			

OCCUPATIONS,	Sex	Y	a	Weekly	OCCUPATIONS,	9	Vacan	Grade	Weekly
STATES, AND COUNTRIES.	Sex	Years	Grade	Wages	STATES, AND COUNTRIES.	Sex	lears	Grade	Wages
Fitters (Boots					Fitters (Boots and Shors) - Con.				
United States - Con.	1			1	United States - Con.				
New York,	M	1871	M	\$12 00	Pennsylvania,	м	1879	н	\$20 00
•	M	1872	M	12 00 12 00		l		M L	10 00 5 25
	M	1873 1874	M	10 00		F		H	10 00
	M	1875 1876	M M	10 00 10 00		M	1880	L M	5 00 6 75
	M	1877	M	9 00		M	1881	M	14 10
	M	1878 1879	M M	9 00		F	1886	H	9 42
	M	1880	M	9 00		1	1000	L	6 30
	F	1885	H	14 00 9 00		F	1888	M H	3 00 18 00
	١		L	4 00		-		mh	15 00
	M	1886	H	12 00 9 00			l	M ml	12 00
	M	1888	H	18 00		M	1888	L H	6 00
	Ì		mh M	15 00 11 00	Wisconsin,	M	1990	L	10 62 6 30
	l		mi	8 00 5 00	Foreign Countries.				
	F		H	12 00	England,	F	1860	H	3 60
			mh M	10 00 7 00		F	1866	H	1 68 2 64
	1		mıl	5 00			l	L	0 96
Ohio,	M	1866	L M	3 00 6 00		F	1868 1871	M	2 88
02.0,	M	1867	M	6 00		M	1888	M	3 60
	M	1868 1869	M. M	6 00		F		M	3 00
	M	1870	M	6 00	Flangers (MA-				Ì
	M	1871 1872	M M	6 00	CHINES AND MA- CHINERY).				
	M	1878 1874	M M	6 00	United States.				
	M	1875	M.	6 00	Illinois,	M	1875	M	16 80
	M	1876	H	10 50 6 00		M	1876 1877	M M	14 40 12 96
	M	1877	H	9 00		M	1878	M	12 96
	M	1878	H	6 00 9 00		M	1879 1880	M	12 96 15 00
	м		L	6 00	Indiana,	M	1875	M	16 80 14 40
	1	1879	H L	7 00 6 00		M	1876 1877	M	12 96
	M	1880	H	9 00		M	1878 1879	M	12 96 12 96
	M	1881	M	6 00		M	1880	M	15 00
	M	1882 1885	M M	7 56 6 00	Maine,	M	1860 1866	M	10 50
	M	1886	M	13 50		M	1870	M	18 00
	F	İ	H	7 98 5 10		M	1877 1879	M M	18 00 18 00
	M	1887	H	24 00 18 00	Massachusetts, .	M	1880 1885	M	18 00 16 50
			mh M	10 50	Michigan,	M	1891	M	10 00
	l		ml L	6 24	New Hampshire, .	M	1864 1865	M	15 60 15 30
	F		H	9 00		M	1866	M	15 00
	1	1	mb M	7 50 6 00		M	1867 1868	M	15 00 16 98
	İ		ml	4 50		M	1869	M	16 98
Pennsylvania,	F	1871	L H	3 00 12 00		M	1870 1871	M M M	18 00 18 00
	ţ	1	L	7 00	1	M	1872	M	18 00
	M	1872 1873	M M	9 00		M	1873 1874	M	19 50 19 50
	M M	1874 1875	M M	8 10 7 20		M	1875 1876	M	18 00 13 50
	M	1876	M	6 30	1	M	1877	M	13 50
	M	1877 1878	M M	5 40 5 85		M	1878 1879	M	13 50 13 50
		1 -3.5		500	II	!	1	1	1

		DEL		ERLI	WAGES - COUL	1400			
Occupations, States, and Coun- tries,	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Flangers (Ma- chines and Ma- chinest) — Con.					Flangers (Machines and Machines) — Con.				
United States - Con.					United States - Con.			1	
New Hampshire, . New Jersey, New York,	M M M M M M M M M M M M M M M M M M M	1880 1885 1851 1852 1853 1854 1856 1857 1858 1859 1860 1861 1862 1863 1864 1866	H TH MANAMAN M	\$15 00 21 00 7 50 7 50 7 50 8 25 8 25 8 25 8 25 8 25 10 00 10 50 11 50 15 00 15 00 16 50	Pennayivania,	M M M M M M M M	1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876		\$16 50 16 50 16 50 16 50 18 50 18 00 18 00 18 00 15 00 16 98 15 00 10 10 90 17 50 17 50 17 50 10 50 10 50 10 50
	M	1868	L H	12 00 16 50		_	1010	mb M	14 20 13 20
	M	1869	L H	13 50 15 00			1070	mi L	12 00 9 00
	M M	1870 1871	L M H	13 50 14 40 21 00		M	1879	H M L	18 00 15 00 11 10
		1	M L	15 00 13 50		M	1880	H	18 00 14 00
	M	1872	H	21 00 15 60		M M	1881 1882	M	13 86 13 86
	M	1873	H	13 50 21 00	Foreign Countries.	M	1883	M	13 80
	M	1874	L	16 80 18 50 21 00	England,	M	1878 1879	M M	8 00 8 00
	M	1875	L H	16 80 13 50 21 00	Great Britain,	M M	1883 1883	M M	7 20 7 30
	-		mh M ml L	16 80 15 00 18 50 9 00	Flatteners (GLASS). United States.				
	M	1876	mh M ml	21 00 16 20 15 00 18 50	Illinois, Indiana,	M M M	1880 1886 1880 1880	M M M	23 40 87 50 20 76 16 14
	M	1877	H mh M ml	9 00 18 00 16 20 15 00 12 00 9 00	Massachusetts, .	M	1885 1872 1875 1878	M H L H	30 91 18 22 19 68 11 53 20 00 11 50
	M	1878	H M ml	18 00 15 60 12 00		M	1881 1883	H L H	20 00 13 03 36 00
	M	1879	L H M	9 00 18 00 15 60		M M	1885 1886	L M M	15 00 20 76 16 10
	м	1880	ml L H mh M	12 00 9 00 18 00 16 80 15 60	Michigan, New Jersey,	M M M M	1880 1863 1864 1865 1866	M M M M	18 00 23 04 23 76 28 80 27 66
Obio, Peansylvania,	M M M	1887 1864 1865	ml L M M M	12 00 9 00 16 50 16 50 16 50		M M M M	1867 1868 1869 1870 1871	M M M M	27 66 27 66 27 66 23 04 23 04

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	G ra de	Weekly Wages
Flatteners (GLASS) — Con. United States - Con.					Flatteners (GLASS) — Con. United States - Con.				
New Jersey,	M	1872	M	\$23 04	Ohio,	M	1877	H	\$30 00
	M	1873 1874	M	23 04 19 56		м	1878	H	18 00 28 02
	M	1875	M	19 56				M	23 40 21 00
	M	1876 1877	M	23 04 20 76		l		ml L	18 00
	M	1878	M	18 42		M	1879	H	25 38 20 00
	M	1879 1880	M	18 42 22 80		м	1880	L H	32 88
			mb	21 00		1		M.	24 00 22 00
	ł		M L	18 42 16 20		l		ml L	15 00
	M	1883	H	80 00		M	1882 1883	M	36 00 27 00
	l		mh M	25 38 20 76		M	1886	H	37 86
	l		ml	18 46 11 54	j	i		M L	33 00 27 00
	M	1884	H	30 00		М	1887	H	42 00
			mh M	26 00 21 92		1		mh M	36 00 30 00
	l		ml	19 61				ml	24 00
	м	1885	H	18 84 28 00	1	M	1888	H	19 98 40 92
	_	1000	mh	26 50		_		mh	36 00
	1		M L	25 38 22 50	ŀ			M ml	30 00 27 72
	M	1886	H	28 80				Ľ	24 00
	l		M ml	24 00 22 12	Pennsylvania,	M	1866 1867	M M	55 86 45 30
			L	20 80	ļ	M	1868	M	50 16
	M	1888	H mh	36 00 33 00	Ì	M	1869 1870	M	28 74
	l		M	30 00		M	1871	M M	34 80 32 82
	ŀ		ml L	27 00 24 00		M	1872 1873	M	39 90
New York,	M	1866	M	86 00		M	1874	M	29 82 27 24
	M	1867	H L	36 00 28 80		M	1875	L	11 52
	M	1868 1869	M M	28 80 28 80		M	1876 1877	M	27 84 34 80
	M	1870	M	28 80		_	1011	M	30 00
	M M	1871 1872	M M	28 80 28 80		м	1878	L H	24 48 33 43
	M	1873	M	28 80				L	23 76
	M	1874 1875	M	26 52 26 52	İ	M	1879	H mh	33 00 25 14
	M	1876	H	26 52		1	ŀ	M	18 00
	м	1877	H	23 04 23 04		м	1880	H	6 00 41 70
			L	20 76		_		mh M	34 50 28 50
	M	1878	H L	20 76 18 42	ĺ]	l	mi	23 10
	M	1879	M	18 42	}	м	1881	L M	16 20 28 20
	M	1880	H L	29 76 21 00		M	1882	H	33 42
	M	1888	H mh	48 00 36 00		м	1883	L M	26 28 37 32
	ŀ	I	M	25 00		M	1884	M	24 88
Ohlo,	м	1860	L M	5 76 20 00	1	M	1886 1888	M H	27 30 45 60
·	M	1870	H	44 40		-		mh	40 80
			M ml	27 00 18 00				M ml	36 00 30 84
			L	15 00				L	27 60
	M	1871 1872	M	44 40 45 00	Foreign Countries.	1			
	M	1873	M	30 60	Belgium,	M	1872	M M	9 23 9 23
	M	1874 1875	M	27 90 32 10		M	1873 1874	M	9 23
	M	1876	M	82 40		M	1878	M	6 00
	<u>' — </u>	<u> </u>		<u> </u>	<u> </u>	<u>' </u>	<u> </u>	<u>' </u>	

GRADED WEEKLY WAGES - Continued.

	G162	DEL	, W.D	BALI	WAGES Conti	auec	l.		
OCCUPATIONS, STATES, AND COUNTRIES.	8ex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekl Wager
Flatteners (GLASS) — Con.					Folders (Book) —Con.				
Foreign Countries — Con.					Foreign Countries — Con.				
Belgium,	M	1882 1884	M	\$6 46 7 79	Germany, Great Britain,	M	1885 1883	M M	\$2 04 1 46
	M	1885	L H	5 50 7 79	Ireland,	F	1855	M M	2 9
France,	M	1868 1882	L M H	5 50 6 24 6 24		F	1856 1857	H	2 55 2 55 1 44
Germany,	M	1882	Ľ H	4 01 8 24		F	1858	L H L	2 5
italy,	М	1882	L M	4 94 6 96		F	1860 1883	L M M	2 10
Folders (Book).					Scotland,	F	1878	M M M	2 50 2 50 2 40
United States.	F	1885	H	10 00	·	F	1883 1884	M M	2 40
	F	1886	L H	5 00 10 00		F	1885	M	2 4
	F	1888	H	5 00 10 00 5 00	Folders (CLOTH). United States.				
Kansas, Maine,	F	1889 1888	L M M	8 00 4 52	California, Connecticut,	M	1890 1854	M	12 0 5 0
Massachusetts, .	M	1837	H	5 50 8 25		M M	1855 1856	M M	5 O
	M F	1838 1840	H L M	5 50 3 25 4 00		M	1857 1858	M	5 1 5 1
	F	1860 1883	M	5 00 12 00		M M M	1859 1860 1861	M M M	5 1- 6 5-
			mh M	9 00		M M	1862 1863	M	6 50 7 00
	F	1885	ml L H	5 00 8 00 9 00		M M M	1864 1865 1866	M M H	7 00 8 00 9 00
	•	1000	mh M	8 00	l I	M	1867	L M	7 5
			ml L	5 00 8 00		M M	1868 1869	M	9 00 8 00
	M F	1891	M H mh	7 00 12 00 9 00		M M M	1870 1871 1872	M M M	8 00 8 00 9 00
			M ml	7 50 5 25		M	1873	M	9 0
Minnesota,	MF	1887	Ä T	3 00 4 72				M L	9 00
Missouri, New Jersey,	F	1887 1883	M H L	6 00 6 00 8 00		M M M	1875 1876 1877	M M M	9 00 8 50 9 00
New York,	F	1885	H L	7 50 4 00		M	1878 1879	M M	9 04 8 54
	F M	1887	M M H	9 96 6 00 6 00	at.	M	1880 1886	M	9 0
	M	1888	M L	6 00 4 00 8 00	Georgia,	M M M	1876 1877 1878	M M M	5 44 5 44
	F		H mb	9 00 7 00		M	1879 1880	M M	5 44 5 44
			M mi	6 00 5 00 8 00	Indiana,	M M	1886 1866	M	4 5 5 4 5 4
Ohio, Pennsylvania,	F	1878 1873	M M	5 00 8 00		M M M	1867 1868 1869	M M M	5 44 5 44
Foreign Countries.			_			M	1870 1871	M M	5 40 5 10
Belgium,	M	1885 1858	M M	4 63 2 40		M	1872 1873	M M M	5 10 5 10 5 10
France,	M	1886	M	2 40		M	1874 1875	M.	5 10 5 10

Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Countries.	Sex	Years	Grade	Weekly Wages
Folders (CLOTH) —Con.					Folders (CLOTH) — Con.				
United States - Con.			1		United States - Con.	l			1
Indiana,	M	1876	M	\$5 10 4 50	Massachusetts, .	M	1891	mi	\$7 50 5 10
	M	1877 1878	M	4 50		F	1	H	7 50
	M	1879 1880	M M	4 50 4 50				M L	6 50 5 10
Maine,	M	1866	M	9 00	Missouri,	M	1876	M	4 50
	M	1867 1868	M	9 00		M	1877 1878	M M	4 50 4 00
	M	1869	M	10 50		M	1879	M	4 50
	M	1870 1871	M	10 50 11 52	New Hampshire, .	M	1880 1850	M	4 50 8 36
	M	1872 1873	M M	11 52 11 52		M	1851 1852	M	8 86 8 36
	M	1874	M	8 58		M	1853	M	8 36
	M	1875	H	8 58 3 60		M	1854 1855	M M	3 36 3 36
	M	1876	H	9 48		M	1856	M	3 36
	M	1877	H	3 30 9 48	1	M	1857 1858	M	6 00
	м	1878	L H	3 80 9 86		M	1859 1860	M	6 00 6 00
	İ	1	L	3 00		ĺМ.	1861	M	6 00
	M	1879	H L	9 84 3 60		M	1862 1863	M	6 00
	M	1880	H L	8 88 4 20		l M	1864 1865	M	7 02 7 50
	M	1886	H	9 48	ŀ	M	1866	M	7 98
	м	1887	L M	6 60 7 98		M	1867 1868	M	8 52 8 52
Maryland,	M	1868	M	8 60		M M M	1869	M	8 52
	M M	1870 1871	M	3 60 4 14		M	1870 1871	M M	8 52 8 52
	M	1872 1873	M	4 14 3 60		M	1872 1873	M	8 52 8 52
	M	1874	M	3 60		M	1874	M	8 52
	M	1875 1876	M	3 30 3 00		M	1875 1876	M	8 52 7 80
	M	1877 1878	M	3 00 3 00		M	1877 1878	M	7 50 7 20
	M	1880	M	3 00		M	1879	M	7 20
Massachusetts, .	M	1886 1873	M	6 00 9 00	New Jersey,	M	1880 1881	M	7 20 12 00
	M	1874	M	15 00		M	1882	H	12 00
	M	1875 1876	M M	15 00		F		L M	11 00 5 25
	M	1877 1878	M	14 70 12 00		M	1883	H	12 00 10 00
	M	1879	H	15 00		-		L	8 00
	M	1880	L	11 40 10 80		F		H	6 00 5 00
	F	1883	H	7 80 6 75	1	M	1886	H	12 00 9 60
	,.		L	4 50		F		M	4 80
	M	1885	H mb	12 00 10 20	New York,	F	1888 1850	M M	4 80 3 00
		1	M ml	7 50 5 40		M	1852 1853	M	8 00 3 00
	_	1	L	4 00		M	1854	M	3 24
	F		H mb	9 04 7 50	1	M	1859 1860	M	3 00 3 00
	İ		M	6 50		M	1861	M	8 00
			ml L	5 10 3 78		M	1862 1863	M	3 00
	M	1886	H M	9 60 6 60		M	1864	H	7 50 3 24
	F		L	4 92		M	1865	M	3 48
	M	1891	H	5 40 15 00		M	1866	H	7 50 3 75
	ĺ		mh M	12 00 10 00		M	1867 1868	M H	4 98 7 50
	ļ	1		15 50		-			1

	u i i i				WAGES - COUL	ucc			
OCCUPATIONS, STATES, AND COUNTRIES.	8ex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weckly Wages
Folders (CLOTH) — Con. United States - Con. New York,	M M M M M	1868 1869 1870 1871 1872 1873 1874	LMHMLHLHMLHLH	\$4 98 4 98 9 00 6 00 4 98 9 00 4 98 9 00 4 98 9 00 4 98 7 86	Folders (CLOTH) — Con. United States - Con. United States (not specified),	M M M M M M M M	1877 1886 1886 1875 1876 1877 1878 1879 1880 1888	M H L M M M M M M M	\$7 60 6 60 4 50 6 00 7 50 7 50 7 50 7 50 7 50 7 50 11 28
		ļ	L	4 80	Foreign Countries.			i	
	M	1875	H	7 50 4 80	England,	M	1877 1878	M	6 30 6 00
	M	1876	H M L H	7 50 6 00 4 50 6 72		M	1886	H mh M ml	4 58 8 50 2 82 1 64
	M	1	L	8 96	ļ	_	ļ	L	0 96
		1878	H L	6 72 3 96		F		H	4 04 2 40
	M	1879	H	6 00 8 60	Germany,	M	1886	M	2 52
	M	1880	H	6 72 4 20	Folders (PAPER).				
	M M	1884 1885	M	4 50	United States.	_			
	F M M	1886 1887 1888	H M L M M H mh	4 50 9 00 7 50 4 20 4 98 4 20 15 00 12 00 9 96 7 50 4 20	Connecticut,	***************************************	1850 1851 1852 1853 1854 1855 1856 1857 1858 1859	M M M M M M M M M	3 00 8 00 8 00 3 00 3 00 8 48 8 48 3 48 8 48 8 48 4 02
North Carolina, .	M	1886 1887	M H M	6 00 7 50 6 00		F F	1861 1862 1863	M M M	4 02 4 02 4 02
Pennsylvania,	M M M M M M M M M M M M M M M M M M M	1860 1861 1862 1863 1864 1865 1866 1867 1871 1872 1873 1874 1875 1876 1877		4 80 9 00 9 00 9 00 9 00 9 00 9 00 9 00 9	Georgia,	M M M M M M M M M M M M M M M M M M M	1864 1865 1866 1867 1869 1870 1871 1872 1873 1874 1875 1876 1879 1880 1862 1863 1864 1867 1868	M M M M M M M M M M	5 40 4 98 6 00 6 48 6 48 6 48 6 48 6 48 6 48 6 48 6 6 48 6 48
Rhode Island,	M	1880 1888 1889	M M M	9 00 10 50 5 00		M M M	1871 1872 1873	M M M	4 80 4 80 4 80

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weeki Wage
Folders (PAPER) — Con.	Ī				Folders (PAPER)				
United States - Con.	1	1			-Con.				
Beorgia,	м	1874	M	\$4.80	United States - Con.	ا ـ ا		.	
	M	1875	M	4 80	New York,	M	1850 1851	M	\$3 71 3 71
	M	1876 1877	M M	4 80 4 80	1	M	1852	M	3 7
	M	1878	M	4 50		M	1853 1854	M	3 7
	M M	1879 1880	M	4 50 6 00		M	1855	IMC I	3 7
llinois,	F	1876	M	4 80		M	1856 1857	M M	3 7
	F	1877 1878	M	4 80 3 60		M	1858	M	8 30
	F	1879	M	3 60		M	1859 1860	H	3 76 4 56
ndiana,	F	1880 1874	M M	4 98 7 00	1	i i		L	3 0
	F	1875	M	7 00		M	1861	H	4 50 3 00
	F	1876 1877	M M	6 50 6 50		M	1862	L M	4.5
	F	1878	M	6 00		M	1863 1864	M	4 50 6 0
	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	1879 1880	M M	6 00 6 00		м	1865	L	4 2 6 0
Kassachusetts, .	F	1861	M	3 00				H L	4 2
	F	1866	H	7 50 4 50	ĺ	M	1866 1867	M	6 0 6 0
	F	1867	H	7 50				L	4 5
	F	1868	H	4 50 7 80		M	1868	H L	6 0 4 5
	1		L M	4 50		M	1869	H	6 0
	M	1869	H	5 40 8 10		м	1870	L H	4 5 6 0
			L	4 50				L	4 5
	F	1870	H	7 50 4 50		M	1871 1872	M	60
	M	1871	M T	7 50		M	1873	M M M	6.0
	P.		H	9 00 4 50		M M	1874 1875	M	60
	M	1872	L M	7 50		M	1876	M	6.0
	B		H	9 60 4 50		M	1877 1878	М	6 0 6 0
	M	1873	M	7 50		M	1879	M M M	6.0
	F		H L	10 50 4 50		M	1880 1888	H	6 0 5 0
	M	1874	M	7 50		_	1000	Ĺ	8 0
	-		H L	8 10 4 50	Ohio,	F	1876	L M M	7 0 8 4
	M	1875	M	7 60		M	1877	M	8 4
	l - ·	l	H L	7 50 4 50		M	1878 1879	M.	8 4
	M	1876	H L	7 00 5 40	D	M	1880	M	8 4
	F		H	5 40 10 20	Pennsylvania,	M	1866 1867	M M M M	3 6 3 6
	M	1877	L M	4 50		M	1868	M	3 6
	F	1011	H	6 00 9 60		M	18 69 1870	M M	3 6
	м	1878	L M	4 50	:	M	1871	M	4 2
	F		M	5 40 8 10		M	1872 187 3	M M	4 2
	M	1879	M M	5 40 8 70	1	M	1874	M	3 6
	M	1880	H	7 50		M M	1875 1876	M	3 6 3 6
	F	1	L	6 00 9 00		M	1877	M	3 0
	M	1885	н	8 10		M	1878 1879	M M M	4 2
	F		L H	6 60 9 00	Wisconsin,	M	1880	M	4 2
	Ī -		L	5 40	WISCOUSIN,	M	1860 1861	M M	4 5
	M	1891	M H	10 00 11 00	1	M	1862	M	4 5
	~		M	9 00		M	1863 1864	M M M	4 5 6 0
dichigan,	M	1884	L M	6 00 3 00		M	1865	М	6 0
New Jersey,	F	1888	M	4 50	l	M	1866 1867	M M	6 0

GRADED WEEKLY WAGES - Continued.

CCCPATIONS, BCX Years Grade Weekly Wages STATES, AND COUNTRIBES. STATES, AND COUNTRIBE		GK	IDEL	, W.E	EKLY	WAGES - Conti	auec	l		
## COULTURAL IMPLEMENTS COUNTURAL IMPLEMENT	STATES, AND COUN-	8ex	Years	Grade	Weekly Wages	STATES, AND COUN-	Sex	Years	Grade	Weekly Wages
## Dritted States - Con. M 1888 M 1889 M 1880 M 18					,	CULTURAL IMPLE-				
Wisconsip, M 1886 M 88 78 8 78 8 78 M 1876 M 1871 M 3 75 M 1872 M 3 75 M 1872 M 3 75 M 1873 M 3 75 M 1873 M 3 75 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1878 M 4 50 M 1878 M 1878 M 1878 M 1878 M 1878 M 1878 M 1878 M 1878 M 1878 M 1878 M 1878 M 1879 M 187	United States - Con.	l						l		
Marcon M	Wisconsin,				\$4 50		M	1874	H	
M 1871 M 3 75 M 1875 M 28 85 M 1875 M 28 85 M 1875 M 28 85 M 1875 M 28 85 M 1877 M 28 85 M 1877 M 28 85 M 1877 M 28 85 M 1877 M 28 85 M 1877 M 28 85 M 1877 M 28 85 M 1877 M 28 85 M 1877 M 28 85 M 1877 M 28 85 M 1877 M 28 85 M 1879 M 1870 M 1880 M 18			1869	M	3 75	,		1075		
M 1873 M 3 75 M 1875 M 3 75 M 1875 M 23 85 M 1877 M 23 85 M 1877 M 23 85 M 1878 M 1878 M 1878 M 1879 M 1880 M 1870 M 1880 M 1870 M 1880 M 1870 M 18		M	1871	M	8 75		M	1919		
M 1874 M 3 75 M 1875 M 1875 M 1875 M 1875 M 1875 M 1875 M 1875 M 1875 M 1875 M 4 50 M 1870 M 1880 M 4 50 M 1880 M 1880 M 1880 M 1880 M 1880 M 1880 M 1890		M	1872	M	8 75		M	1876	H	28 85
Foremen (A G R I. CULTURAL IMPLE. M. 1889 M. 4 800 M. 1880 M. 1883 M. 4 800 M. 1880 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1884 M. 1884 M. 1884 M. 1885 M. 1887 M. 21 800 M. 1887 M. 21 800 M. 1887 M. 21 800 M. 1887 M. 21 800 M. 1888 M. 1889 M.		M	1874	M	3 75		M	1877	H	28 85
Foremen (A G R I. CULTURAL IMPLE. M. 1889 M. 4 800 M. 1880 M. 1883 M. 4 800 M. 1880 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1884 M. 1884 M. 1884 M. 1885 M. 1887 M. 21 800 M. 1887 M. 21 800 M. 1887 M. 21 800 M. 1887 M. 21 800 M. 1888 M. 1889 M.				M	3 75		M	1979		
Foremen (A G R I. CULTURAL IMPLE. M. 1889 M. 4 800 M. 1880 M. 1883 M. 4 800 M. 1880 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1883 M. 1884 M. 1884 M. 1884 M. 1885 M. 1887 M. 21 800 M. 1887 M. 21 800 M. 1887 M. 21 800 M. 1887 M. 21 800 M. 1888 M. 1889 M.		M	1877	M	8 75		-		L	16 50
Foremen (A g R I - CULTURAL IMPLE MENTS). United States.					4 50		M	1879		28 85 15 90
Foremen (A G R I - CULTURAL IMPLE-MENTS). United States. Illinols,		M	1880	M	4 50		M	1880	H	28 85
Poremen (A G R I		M	1999	M	4 80	,	M	1883		15 90 31 25
Michigan Michigan	Foremen (AGRI-	l		١.	1		1		L	24 00
United States. Illinois, M 1876 M 21 80 M 1877 M 21 80 M 1877 M 21 80 M 1878 M 21 80 M 1880 M 1890	MENTS).	!		1			M	1991		
Illinols,	United States.	l				Michigan,	M	1884	H	19 50
M 1886	Illinois,	М	1876	M	21 60			١.	M	15 00
M 1886		M	1877	M	21 60		M	1901		12 00
M 1886 H 30 00 mh 27 00 mh 27 00 ml 21 00 ml 18 00 mh 18 00 mh 16 50 mh 16 50 mh 16 50 mh 16 50 mh 16 50 mh 16 50 mh 16 50 mh 16 50 ml 12 00 ml 12 00 ml 1866 ml 12 00 ml 1868 ml 23 08 ml 1868 ml 23 08 ml 1871 ml 22 08 ml 1873 ml 1872 ml 1870 ml 1877 ml 1870 ml 1870 ml 1870 ml 1871 ml 1870 ml 1870 ml 1871 ml 1870		M	1879	M	21 60		-	1091	mh	19 20
Indiana,										18 00
Indiana, M 1880 M 24 92 M 1888 H 18 00 M 1880 M 18 00 M		-	2000	mh	27 00		l		L	12 00
Indiana,		ŀ			21 00 18 00	New York,	M	1886		
M 1886 H 18 00 mh 15 00 mh 15 00 mh 15 00 mh 12 00 mh 1864 M 15 00 mh 1865 M 1866 M 15 00 M 1867 M 23 08 M 1867 M 23 08 M 1870 M 23 08 M 1871 M 23 08 M 1872 M 23 08 M 1872 M 23 08 M 1872 M 23 08 M 1871 H 18 00 M 1875 M 38 46 M 1877 M 38 46 M 1877 M 38 46 M 1877 M 38 46 M 1877 M 38 46 M 1877 M 38 46 M 1879 M 38 46 M 1879 M 38 46 M 1877 M 38 46 M 1877 M 38 46 M 1877 M 38 46 M 1877 M 38 46 M 1877 M 38 46 M 1877 M 38 46 M 1877 M 38 46 M 1877 M 38 46 M 1877 M 38 46 M 1878 M 1870 M	To Alama		1000	L	15 00		M	1888		21 00
Massachusetts, Mass	IDGMANA,	M		H	18 00					16 50 10 50
Massachusetts, Mass		ļ			15 00	ONE		,,,,	l T.	4 50
Massachusetts, Mass		ļ			12 00	Опо,	M		M	
M 1867 M 23 08	Wentnekw	м	1886		9 90				M	
M 1860 M 23 08 M 1871 H 18 00 M 1871 M 23 08 M 1871 H 18 00 M 1873 M 34 62 M 1872 H 18 00 M 1875 M 38 46 M 1878 H 18 00 M 1876 M 38 46 M 1874 H 18 00 M 1877 M 38 46 M 1874 H 18 00 M 1878 M 38 46 M 1874 H 18 00 M 1878 M 38 46 M 1875 H 18 00 M 1878 M 38 46 M 1875 H 18 00 M 1878 M 38 46 M 1875 H 21 00 M 1880 M 38 46 M 1876 H 21 00 M 1880 M 18 00 M 1877 H 21 00 M 1864 M 13 50 M 1877 H 21 00 M 1866 M 18 00 M 1878 H 21 00 M 1868 M 18 00 M 1878 H 21 00 M 1868 M 18 00 M 1878 H 21 00 M 1868 M 18 00 M 1879 H 30 00 M 1869 M 18 00 M 1879 H 30 00 M 1871 H 23 08 M 18 01 M 1872 H 23 08 M 1880 H 30 00 M 1873 H 23 08 M 1890 M 1890 M 1871 H 23 08 M 1800 M 1800 M 1872 H 23 08 M 1800 M 1800 M 1873 H 23 08 M 1800 M 1800 M 1873 H 23 08 M 1800 M 1800 M 1873 H 23 08 M 1800 M 1800 M 1873 H 23 08 M 1800 M 1800 M 1873 H 23 08 M 1800 M 1800 M 1873 H 23 08 M 1800 M 1800 M 1874 H 23 08 M 1800 M 1800 M 1875 H 23 08 M 1900 M 1900 M 1875 H 23 08 M 1900 M 1900 M 1875 H 23 08 M 1900 M 1900 M 1875 H 23 08 M 1900 M 1900 M 1875 H 23 08 M 1900 M 1900 M 1875 H 23 08 M 1900 M 1900 M 1875 H 23 08 M 1900 M 1900 M 1875 H 23 08 M 1900 M 1900 M 1875 H 23 08 M 1900 M 1900 M 1875 H 23 08 M 1900 M 1900 M 1875 H 23 08 M 1900 M 1900 M 1875 H 23 08 M 1900 M 1900 M 1875 H 23 08 M 1900 M 1900 M 1875 H	Manager,	M	1867	M	23 08		M	1868	M	15 00
M 1874 M 38 46 M 1878 H 18 00 M 1876 M 38 46 M 1876 H 18 00 M 1877 M 38 46 M 1874 H 18 00 M 1877 M 38 46 M 1875 H 21 00 M 1879 M 38 46 M 1875 H 21 00 M 1879 M 38 46 M 1875 H 21 00 M 1880 M 18 00 M 1876 H 21 00 M 1886 M 15 50 M 1877 H 21 00 M 1886 M 15 50 M 1877 H 21 00 M 1866 M 15 00 M 1877 H 21 00 M 1866 M 15 00 M 1877 H 21 00 M 1866 M 15 00 M 1878 H 21 00 M 1867 M 18 00 M 1878 H 21 00 M 1868 M 18 00 M 1878 H 21 00 M 1869 M 18 00 M 1879 H 30 00 M 1870 M 18 00 M 1870 H 30 00 M 1871 H 23 08 M 18 01 M 1872 H 23 08 M 18 00 M 1873 H 23 08 M 19 09 M 1873 H 23 08 M 19 09 M 1873 H 23 08 M 19 09 M 1873 H 23 08 M 19 09 M 1873 H 23 08 M 19 09 M 1870 H 21 00 M 1870 H 23 08 M 19 09 M 1870 H 23 08 M 19		M		M						18 00
M 1873 M 34 62 M 1878 H 18 00 Massachusetts, M 1864 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1877 M 38 46 M 1875 H 21 00 Massachusetts, M 1886 M 18 00 M 1877 H 21 00 M 1860 M 15 50 M 1877 H 21 00 M 1864 M 15 50 M 1877 H 21 00 M 1866 M 15 50 M 1877 H 21 00 M 1866 M 15 50 M 1877 H 21 00 M 1866 M 15 00 M 1877 H 21 00 M 1866 M 15 00 M 1878 H 21 00 M 1867 M 18 00 M 1878 H 21 00 M 1868 M 18 00 M 1878 H 21 00 M 1869 M 18 00 M 1878 H 21 00 M 1870 H 23 08 M 18 01 M 1871 H 23 08 M 18 00 M 1872 H 23 08 M 19 09 M 1873 H 23 08 M 19 09 M 1873 H 23 08 M 19 09 M 1878 H 23 08 M 19 09 M 1878 H 23 08 M 19 09 M 1878 H 23 08 M 19 09 M 1878 H 23 08 M 19 09 M 1878 H 23 08 M 19 09 M 1878 H 23 08 M 19 09 M 1878 H 23 08 M 19 09 M 1878 H 23 08 M 19 09 M 1878 H 23 08 M 19 09 M 1878 H 23 08 M 10 10 M 1878 H 23 08 M 10 10 M 1878 H 23 08 M 10 10 M 1878 H 23 08 M 10 10 M 1878 H 23 08 M 10 10 M 1878 H 23 08 M 10 10 M 1878 H 23 08 M 10 10 M 1979 M 10 10 10 M 1979 M 10 10 10 M 1979 M 10 10 10 M 1979 M 10 10 10 M 1979 M 10 10 M 1979 M 10 10 M 1979 M 10 10 M 1979 M 10 10 M 1979 M 10 10 M 1979 M 10 10 M 1970 M 10 10 M 1970 M 10 10 M 10 10 M 10 10 M 10 10 M 10 10 M 10 10 M 10 10 M 10 10 M 10 10 M 10 10 M 10 10 M 10 10 M 10 10 M 10 10 M 10 10 M 10 10 M 10 10 M 10 10 M		M	1870	M	23 08				H	18 00
M 1874 M 38 46 M 1878 H 18 00 M 1876 M 38 46 M 1876 H 18 00 M 1877 M 38 46 M 1874 H 18 00 M 1877 M 38 46 M 1875 H 21 00 M 1879 M 38 46 M 1875 H 21 00 M 1879 M 38 46 M 1875 H 21 00 M 1880 M 18 00 M 1876 H 21 00 M 1886 M 15 50 M 1877 H 21 00 M 1886 M 15 50 M 1877 H 21 00 M 1866 M 15 00 M 1877 H 21 00 M 1866 M 15 00 M 1877 H 21 00 M 1866 M 15 00 M 1878 H 21 00 M 1867 M 18 00 M 1878 H 21 00 M 1868 M 18 00 M 1878 H 21 00 M 1869 M 18 00 M 1879 H 30 00 M 1870 M 18 00 M 1870 H 30 00 M 1871 H 23 08 M 18 01 M 1872 H 23 08 M 18 00 M 1873 H 23 08 M 19 09 M 1873 H 23 08 M 19 09 M 1873 H 23 08 M 19 09 M 1873 H 23 08 M 19 09 M 1873 H 23 08 M 19 09 M 1870 H 21 00 M 1870 H 23 08 M 19 09 M 1870 H 23 08 M 19		M		M	23 08		M	1872		
M 1876 M 38 46 M 1877 M 38 46 M 1875 H 21 00 M 1878 M 38 46 M 1879 M 1878 M 1880 M 38 46 M 1876 H 21 00 M 1876 M 1886 M 18 00 M 1876 H 21 00 M 1876 M 18 00 M 1876 H 21 00 M 1876 M 18 00 M 1876 H 21 00 M 1876 M 18 00 M 1877 H 21 00 M 1876 M 18 00 M 1877 H 21 00 M 18 00 M		W	1873	M	84 62		1		L	15 00
M 1876 M 38 46 M 1877 M 38 46 M 1875 H 21 00 M 1878 M 38 46 M 1879 M 1878 M 1880 M 38 46 M 1876 H 21 00 M 1876 M 1886 M 18 00 M 1876 H 21 00 M 1876 M 18 00 M 1876 H 21 00 M 1876 M 18 00 M 1876 H 21 00 M 1876 M 18 00 M 1877 H 21 00 M 1876 M 18 00 M 1877 H 21 00 M 18 00 M		₩	1875	M	38 46		M	1878		
M 1879 M 38 46 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1880 M 1890 M		M	1876	M	88 46		M	1874	H	18 00
Maine,		M	1878	M	88 46		M	1875	H	21 00
Maine, - M 1886 H 16 50 L 13 50 M 1877 H 21 00 M 1850 M 1864 M 15 00 M 1877 H 21 00 M 1864 M 1866 M 15 00 M 1878 H 21 00 M 1866 M 1866 M 18 00 M 1878 H 21 00 M 1867 M 1868 M 18 00 M 1878 H 21 00 M 1868 M 18 00 M 1878 H 21 00 M 1878 M 1889 M 18 00 M 1879 H 30 00 M 1870 H 23 08 L 18 00 M 1871 H 23 08 M 1870 H 23 08 L 18 00 M 1872 H 23 08 L 18 00 M 1872 H 23 08 M 1870 H 30 00 M 1872 H 23 08 M 1870 H 30 00 M 1873 H 23 08 M 18 00 M 1879 H 30 00 M 1879 M 1879 H 30 00 M 187		I ₩		M			1		M	17 81
Massachusetts, M 1840 M 10 50 M 1877 H 21 00 M 1850 M 1864 M 13 50 M 1866 M 18 50 M 1866 M 18 00 M 1878 H 21 00 M 1868 M 18 00 M 1868 M 18 00 M 1868 M 18 00 M 1869 M 18 00 M 1869 M 18 00 M 1879 H 30 00 M 1870 H 23 08 L 18 00 M 1871 H 23 08 L 18 00 M 1871 H 23 08 L 18 00 M 1872 H 23 08 L 18 00 M 1870 H 30 00 M 1870 H 23 08 L 18 00 M 1870 H 25 00 M 1872 H 23 08 L 18 00 M 1870 H 30 00 M 1870 H 30 00 M 1870 H 20 00 M 19 00		M	1886	M	18 00		M	1876	H	21 00
Massachusetts, M 1840 M 10 50 M 1877 H 21 00 M 1850 M 1850 M 1850 M 1850 M 1850 M 1850 M 1800 M 1878 H 21 00 M 1878 M 17 31 1	Maine,	M.	1886				ł		M	17 31
M 1866 M 15 00 M 1878 H 21 00 M 1878 M 17 31 M 1878 M 17 31 M 1878 M 17 31 M 1878 M 17 31 M 1879 H 30 00 M 1879 H 23 08 M 1870 H 23 08 M 1871 H 23 08 M 1872 H 23 08 M 1872 H 23 08 M 1872 H 23 08 M 1879 H 30 00 M 1879 H 30 00 M 1979 M 1	Massachusetts, .	M		M	10 50		M	1877	H	21 00
M 1866 M 15 00 M 1878 H 21 00 M 1878 M 17 31 M 1878 M 17 31 M 1878 M 17 31 M 1878 M 17 31 M 1879 H 30 00 M 1879 H 23 08 M 1870 H 23 08 M 1871 H 23 08 M 1872 H 23 08 M 1872 H 23 08 M 1872 H 23 08 M 1879 H 30 00 M 1879 H 30 00 M 1979 M 1		M	1864	M			1			
M 1870 H 23 08		M	1865	M	15 00		M	1878	H	21 00
M 1870 H 23 08		M	1867	M	18 00					17 31 7 62
M 1870 H 23 08	•	M	1868	M	18 00		M	1879	H	30 00
M 1871 H 23 08		M		H	23 08			1	M	18 01
M 1872 H 23 08 M 1880 H 30 00 mh 25 00 M 1979 M 1979 M 19 09 ml 13 50		M	1871		18 00					12 50
M 1878 H 28 85 M 19 09 ml 18 50			l	L	18 00		M	1880	H	1 80 00
M 1878 H 28 85 ml 18 50		M	1872		23 08 1 18 00				mh M	
L 19 02 L 8 81		M	1878	H	28 85		ŀ		ml	18 50
		1]	-	19 02			1	L	8 81

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Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weckly Wages
Foremen (AGRI- CULTURAL IMPLE- MENTS) — Con.					Foremen (ARTI- SANS' TOOLS) — Con.				
United States - Con.		ĺ			United States - Con.			l	
Ohio,	M	1882 1883	M H M ml	\$17 70 30 00 24 00 21 15	Massachusetts, .	M M M M	1878 1879 1880 1885	M M M H	\$23 08 23 08 23 08 24 00
	M	1884	H mh M	18 00 25 00 20 00 18 00	Michigan,	M	1891 1891	M M M	18 00 12 00 18 00 15 00
	M	1886	H mh M	12 00 40 00 30 00 25 00 19 00	Missouri,	M	1879 1854 1855	M H L M	20 00 11 54 9 75 12 00
Pennsylvania,	M M	1873 1876	ml L M H L	12 00 18 00 19 50 11 54		M M M M	1856 1857 1858 1859 1860	M M M M	12 00 12 00 12 00 12 00 12 00
	M	1878	H	16 50		M	1861	M	12 00
	M M	1886 1888	L M H L	13 50 24 00 21 00 10 50		M M M	1862 1863 1864 1865	M M M M	12 00 12 00 15 00 15 00
Wisconsin,	M	1888	M	18 66		M	1866 1867	M M	18 00 18 50
Foremen (ARTI- SANS' TOOLS). United States.						M M M	1868 1869 1870	M M M	13 50 18 50 13 50
Connecticut,	M	1850	м	13 85		M	1871 1872	M	13 50 13 50
	M	1851 1852	M	13 85		M	1873	M	13 50
	M	1853	M	13 85 13 85		M	1874 1875	M H	13 50 21 00
	M	1854 1855	M	13 85 13 85		M	1876	L M	13 50 13 50
	M	1856 1857	M M	18 85 13 85		M	1877 1878	M	13 50 18 50
	M	1858	M	13 85		M	1879	M	13 50
	M	1859 1860	M M	13 86 13 85	New York,	M	1880 1888	M M	13 50 21 00
	M	1861 1862	M	13 85 17 31	Ohio,	M	1879 1880	M	18 35 25 00
	M	1863 1864	M	17 31 17 31			1000	M	20 00
	M	1865	M	1731				mi L	14 50
	M	1866 1867	M	17 81 17 31		M	1882 1884	M	21 00 25 00
	M	1868 1869	M M	17 31 17 31				mh M	20 00 18 00
	M	1870	M M	17 31			ļ	ml	15 00
	M	1871 1872	M	17 31 17 31	Pennsylvania,	M	1877	L M	10 00 30 00
	M	1873 1874	M M	17 31 17 31		M	1879	M	12 00
	M M	1875 1876	M	17 31 17 31	Foremen (Boots AND SHOES).	l		•	
	M	1877	M	17 31	United States.				
	M	1878 1879	M M	17 31 17 31	California,	M	1875	м	10 50
Massachusetts, .	M	1880 1869	M M	17 31 38 46		M	1876 1877	M M	10 50 10 50
	M	1870 1871	M	38 46 38 46		M	1878	M	10 50
	M	1872	M	38 46		M	1879 1880	M	10 50 10 50
	M M	1873 1874	M M	38 46 38 46		M	1885 1886	M	10 50 30 00
	M	1875 1876	M	38 46 38 46	Illinois,	M	1875	M	23 08
		l	L	15 00		M	1876 1877	M	23 03 23 08
	M	1877	M	38 46		M	1878	M	23 06

		DEL		EEKLY	WAGES - Conti		••		
Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- triks.	Sex	Years	Grade	Weekly Wages
Foremen (Boots AND SHOES) - Con.					Foremen (Boots and Shoes) - Con.				
United States - Con.					United States - Con.				
Illinois,	M	1879	M	\$23 08	Massachusetts, .	M	1885	шр	\$27 00
Indiaus,	M	1880 1860	M	23 08 15 38				M ml	22 00 15 54 9 00
	M M M M	1861 1862 1863 1864 1865	M M M M M M M M	19 23 19 23 19 23 23 08 23 08		F		L H mh M ml	20 60 16 00 18 50 12 00
	M M M M	1866 1867 1868 1869 1870	M	34 62 84 62 34 62 34 62 34 62		м	1886	H mb M ml	8 00 22 02 19 98 18 00 15 00
	M M M M	1871 1872 1878 1874 1875	M M M	84 62 80 77 23 08 23 08 25 00		M	1891	L H mh M ml	13 50 27 00 23 07 19 25 16 00
	M M M M	1876 1877 1878 1879 1880	M M M M M M	26 92 28 85 28 85 28 85 28 85		F		L H mh M L	12 00 20 00 18 90 12 00 9 00 24 96
Maine,	M	1865 1866	M M	12 00 12 00	Missouri,	M	1890	H L	24 96 10 74
	M	1867	M	13 50	New Jersey,	M	1881 1886	M	11 54
	M	1868 1869	l Mr	15 00		M	1888	M M M M	10 50
	M	1870 1871	M	15 00 14 77	New York,	F	1860 1865	M	12 00 16 00
	M	1872	M	14 77		F	1870	M	15 00
	M	1878 1874	M	14 77 19 23		F	1875 1880	M	14 00 15 00
	м	1876	H	14 77 19 23		M	1886	mb	18 00 16 02
	И	1876	H	15 69 17 81 15 69				M ml L	12 00 10 50
	M	1877 1878 1879 1880	M M M	17 81 17 31 17 54 18 46		M	1888	H mh M L	24 00 21 00 17 00 8 07
Maryland,	M	1850	L M	15 38 13 85	Ohio	F	1866	M	12 00 16 23
maryand,	MMM	1860 1861 1862 1863 1864 1865 1866	M M M M M	18 85 18 85 14 77 14 77 16 62 16 62 18 46 18 46	ono,	M M M M M	1867 1868 1869 1870 1871 1872 1878 1874		15 23 16 28 17 81 17 81 17 31 17 31 17 31 17 81
	M	1868 1869 1870	M M M	18 46 23 08 23 08		M	1875 1876 1877	M M M	19 15 19 15 19 15
	M M M M M M M	1871 1872 1873	M M M	28 08 23 08 23 08		M	1878 1879	M H L	19 15 19 15 19 16 7 86
	M	1874 1875	M	23 08 23 09		М	1880	H	25 00 20 00
	M M M	1876 1877 1878 1879 1880	M	23 08 23 08 23 08 23 08 23 08		M M	1882 1884	ml L M H mh	18 76 16 50 18 54 30 00 25 00
	M	1885 1886	H	23 08 20 00 30 00 15 00		м	1886	M ml L	22 00 18 00 15 00 45 00
Massachusetts, .	м	1885	L H	15 00 85 00		**	1090	H	25 00

Occupations,				Weekly	OCCUPATIONS,				
STATES, AND COUNTRIES.	Sex	Years	Grade	Wages	STATES, AND COUNTRIES.	Bex	Years	Grade	Weekly Wages
Foremen (Boots AND SHOES) - Con. United States - Con. Ohio,	M M M M M	1886 1872 1873 1874 1876 1876 1877 1878	m L H L H L H L H L H L H L H L H L H	\$18 00 10 00 12 46 20 77 13 85 16 62 11 08 14 64 9 69 12 46 8 81 13 48 9 90 15 68	Foremen (BRICK, TILES, AND SEW- ER PIPE) — Con. United States - Con. Massachusetts, Michigan,	M M M M M M M	1891 1884 1865 1866 1867 1870 1871 1872 1873 1874 1875 1876	M M M M M M M M M M M M M M M M M M M	\$18 67 16 50 13 50 29 90 21 90 21 90 21 90 21 90 21 90 21 90 21 90 21 90 21 90 21 90 21 90 21 90 21 90 21 90 21 90 21 90 21 90
	М	1880	H	10 88 15 68		M	1878 1879	IM	19 26 19 26
Wisconsin,	М	1888	L M	10 38 18 18	New Hampshire, .	M	1880 1886	M	19 26 84 14
Foreign Countries.					New York,	M	1888	H	24 00 18 60
England,	M	1868 1871 1883	M M H mh M M	8 40 8 40 14 40 13 20 10 80 8 40 6 72	Ohio,	MMM	1861 1862 1863 1864 1865 1866	mi L M M M M M M	17 40 15 00 12 00 12 00 12 00 12 00 18 50 13 50
Foremen (BRICK, TILES, AND SEW- ER PIPE).				İ		M M M	1867 1868 1869	M M M	13 50 13 50 18 50
United States.						M	1870 1871	M	15 0 0 19 15
Delaware, Indiana,	M	1886 1863	M	19 98 18 00		M	1872 1878	M H	19 15 19 15
	M	1864 1865	M M M	18 00 19 50		м	1874	L H	12 00 19 15
	M	1866 1867	M	21 00 21 00		M	1875	H	12 00 17 31
	M	1868 1869	M	19 50 19 50		M	1876	H	12 00 16 15
	M	1870 1871	M M M M M M	19 50 18 00		м	1877	L H	12 00 15 00
	M M M	1872 1873	M	18 00 16 50		м	1878	H	12 00 15 00
	M	1874 1875	M	18 00 15 00		м	1879	H	12 00 15 88
	M	1876 1877	M	13 50 13 50		М	1880	H	13 50 30 00
	M	1878 1879	M	11 40 11 40	ļ			M mi	19 00 14 00
Iowa	M M M	1880 1881	M	12 00 13 50		М	1881	L M	9 00 14 40
Kentucky,	M	1885	H	18 00 10 38		М	1882	H mb	17 34 15 00
Mentucky,	M	1875 1876	M M	11 54 11 54				M ml	13 32 11 76
	M M M	1877 1878	M M M	11 54 11 54		м	1884	H	9 00 21 00
Massachusetts, .	M	1879 1880	M	9 24 11 54		1		mh M	18 00 14 00
	M	1885	H	36 00 18 00		١.,		ml L	10 50 7 00
		1000	ml L	12 69 7 89		M	1886	H mh	20 00 18 00
	M	1891	H mh	25 00 21 00			l	M ml	15 00 12 00

Occupations, States, and Coun- triks.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weckly Wages
Foremen (BRICK, TILES, AND SEW- ER PIPE) — Con. United States - Con.					Foremen (Build- ing) — Con. United States - Con.				
Ohio, Pennsylvania,	M	1886 1860	L M	\$8 10 11 52	Indiana,	M	1879	M L	\$16 50 9 23
	M	1861 1862	M	13 50 18 50		M	1880	H L	21 00 9 28
	M	1863 1864	M	17 22	Iowa,	Ñ	1869	M	13 46
	M	1865	M M	18 00 18 00		M	1870 1871	M	13 46 13 46
	M	1866 1867	M	19 20 19 50		M	1872 1873	M	18 46 18 00
	M	1868 1869	M	23 04 23 04		M	1874 1875	M	18 00 18 00
	M	1870 1871	M	23 04 23 04		M	1876 1877	M	18 00 18 00
	M	1872	M	23 04		M	1878	M	18 00
	M	1878 1874	M M	28 04 23 04		M	1879 1880	M	18 00 18 00
	M	1876 1876	M H	23 04 23 04		M	1885	H L	25 50 17 25
	M	1877	L M	12 00 23 04	Kansas,	M	1864 1865	M M	17 31 17 31
	M	1878	M	23 04		M	1866	M	17 31
	M	1879	H	23 04 13 50		M	1867 1868	M	17 31 17 81
Wisconsin,	M	1880 1888	M	28 04 14 70		M	18 69 1870	M	17 81 17 81
Foreign Countries.						M	1871 1872	M M	17 81 17 81
Germany,	M	1886	M	5 63		M	1878 1874	M M	17 81 17 81
Foremen (Build-						M	1875 1876 1877	M	17 81 17 81 17 81
United States.						M	1878 1879	M	17 81 17 31
California,	Ж	1885	M	86 00		M	1880	M	17 31
Indiana,	M	1863 1871	M	18 00 18 46		M	1886 1890	M M	30 00 33 00
	м	1872	H	8 81 24 00	Kentucky,	M	1852 1853	M M	9 23 10 38
			mh M	21 00 18 00		M M	1854 1855	M M	11 54 15 00
	M	1873	Î. H	9 23		MI	1856	M	15 00
	M	1813	mh	21 00		M M	1857 1858	M	18 46 18 46
	· '		M L	18 00 9 23		M	1859 1860	M	18 46 18 46
	M	1874	H mh	28 02 21 00		M M	1861 1862	M	11 54 18 00
			M L	18 00 9 23		M	1863	H	23 08
	M	1875	H	28 02		M	1864	L M	18 46 28 85
			mh M	21 00 18 00		M	1865	H L	88 31 23 08
	М	1876	L H	11 54 27 69		M	1866 1867	M M	23 08 23 08
			mh M	21 00 18 00		M	1868 1869	M	23 08 23 08
			T.	11 54				L	19 61
	M	1877	H mh	27 69 21 00		M	1870	H	23 08 18 46
		1	M ml	18 00 15 00		M	1871	H	27 69 23 08
	M	1878	L H	10 38		M	1872	Î. H	18 46 28 85
		1019	mh	18 00				Ñ.	23 08
		 	M ml	15 00 13 50		м	1873	L M	18 46 25 38
	м	1879	L H	9 23 21 00		M	1874	H	25 38 20 77
	_	2010	mh	18 00		M	1875	Ħ	23 08

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	Occupation States, and tries.		Sex	Years	Grade	Weckly Wages
Foremen (Build- ing) — Con.					Foremen (BUILD-				
United States - Con.					United States			l		
Kentucky,	M	1875	L	\$20 77	Michigan,		M	1884	M	\$18 00
Mentacky,	M	1876	H	21 92			i		L	15 00
			M	18 46	Minnesota,		M	1890	H	29 52
	м	1877	L H	16 15 21 92	Missouri, .		M	1872	H	16 02 45 00
			M	18 46	miocouri, .	•	-		L	30 00
	М	1878	L H	16 16 19 61			M	1879 1887	M	30 00 24 00
	341	1010	M	17 31			300	1001	Ĺ	18 00
			L	15 00	New Jersey,		M	1881	M	28 85
	M	1879	H M	18 46 15 00			M	1884	H M	30 00 19 50
		l	L	13 85	İ				Ĺ	15 00
	M	1880	H	17 31	New York,		M	1888	H	48 07
Louisiana,	М	1871	L M	15 00 24 00			l		mh M	38 64 25 00
,	M	1872	M	24 00					ml	18 00
	M	1873 1874	M	24 00 24 00	İ		м	1889	L H	10 50 80 00
	M	1875	M	24 00	ľ		_	1309	M	24 00
	M	1876	M	24 00	İ		!	İ	ml	18 00
	M	1877 1878	M	24 00 24 00	Ohio, .		M	1858	L M	14 00 15 00
	M	1879	M	24 00	02.0,	•	M	1859	M	15 00
Maine	M	1880 1887	M M	24 00 18 00	Ì		M	1860 1861	M	15 00 18 00
Massachusetts, .	M	1835	M	10 50			M	1901	Ĺ	15 00
	M	1845	H	10 50			M	1862	H	21 00
			M L	9 00	j		M	1863	L H	15 00 24 00
	M	1860	H	12 00			, ma	1	L	21 00
	M	1869	L	10 50 22 50			M	1864	H	30 00 24 00
	M	1870	M	23 08			М	1865	L M	30 00
	M	1871	M	22 50			M	1866	M	80 00
	M M	1872 1873	M M	22 50 22 50			M	1867	H	30 00 16 50
	M	1874	M	22 50			M	1868	н	30 00
	M M	1875 1876	M M	19 50 18 00			M	1869	H	16 50 30 00
	M	1877	M	18 00			31	1	L	16 50
	W	1878	M	18 00			M	1870	H	30 00
	M	1879 1880	M M	18 00 22 50			M	1871	L H	15 00 30 00
	M	1883	M	21 00				i	L	13 85
	M	1885	H mh	30 00 25 50			M	1872	H	30 00 11 54
			M	21 00			M	1873	H	30 00
	1		ml	16 50				1004	L	11 54
	м	1891	H	12 00 80 00			M	1874	H	30 00 11 54
		2001	mh	27 00			M	1875	H	30 00
			M ml	23 22 19 08				ļ	M	22 80 15 00
			T.	15 00				İ	L	11 64
Michigan,	M	1869	H	18 00			M	1876	H	30 00
	M	1870	H	15 00 18 00					M	22 80 10 38
		İ	I.	15 00			M	1877	H	30 00
	M M	1871 1872	M	16 50 16 50			1		m.h.	25 00 21 00
	M	1873	M	15 00					L	9 00
	M	1874	M	13 50			M	1878	H	30 00
	M M	1875 1876	M	13 50 12 00					M ml	20 10 13 85
	M	1877	M	12 00					L	9 00
	M M	1878 1879	M M	12 00 12 00			М	1879	H	30 00 19 50
	M	1880	M	13 50			1		mi	15 10
	M	1884	H	21 00					L	10 38

Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	Occupations, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Foremen (Build- ing) — Con. United States - Con.					Foremen (CAR- RIAGES AND WAG- ONS) — Con.				
Ohio	M	1880	н	\$30 00	United States - Con. Connecticut,	M	1870	м	\$2 1 00
o u.,	M	1882 1884	mh M M L M H L	25 00 20 10 15 00 12 00 24 00 26 00 18 00	·	MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	1875 1876 1877 1878 1879 1880 1886	M M M M M M	21 00 21 00 18 00 18 00 21 00 22 50 25 02
	M	1886	H mb M ml L M	27 60 21 00 20 00 16 00 12 00	Delaware,	M M M	1864 1865 1866 1867	H M M M	19 50 15 00 15 00 18 00 18 00
Pennsylvania,	M M	1871 1872 1873	M H L	15 00 15 00 18 00 15 00		M M M	1868 1869 1870 1871	M M M	18 00 18 00 18 00 18 00
	M M M	1874 1875 1876	M M H L	12 00 9 00 27 00 9 00		M M M M	1872 1873 1874 1875	M	18 00 21 00 24 00 24 00
	M	1877	M ml L	36 00 24 00 18 00 10 50		M M M M	1876 1877 1878 1879	M M M M	24 00 20 00 20 00 20 00
	M	1878 1879	M H M ml	10 50 24 00 18 00 14 40 12 00	Georgia,	M M M M	1880 1865 1866 1867	M M M	20 00 12 69 12 69 12 69
Wisconsin,	M	1880 1888	M H L	12 00 19 14 14 00		M M M M	1868 1869 1870 1871 1872	M M M M	12 69 12 69 12 69 12 69 12 69
Foreign Countries. England,	M M	1863 1866 1868	M M H	7 92 9 12 8 64		M M M	1873 1874 1875 1876	M M M	12 69 12 69 12 69 12 69
	M	1877	L H mh M mi	2 16 - 15 12 12 96 11 86 10 00 7 91	Illinois,	M M M M	1877 1878 1879 1880 1886	M M M H H	12 69 12 69 11 54 11 54 80 00
	M	1880	M ml	14 40 10 80 8 64 6 72	Indiana,	M	1871	ml L M	24 00 21 00 18 00 24 00
France, Germany,	M	1878 1877 1882	M M H M	12 00 6 60 5 95 4 88 3 33		M	1872 1873 1874 1875 1876	M M M	24 00 24 00 24 00 24 00 18 00
Great Britain, Ireland,	M	1 88 3 1871	L M H L	8 52 14 40 7 92		M M M M	1877 1878 1879 1880	M M M M	15 00 15 00 12 00 12 00
Scotland,	M	1874 1866 1877	M H L	8 88 7 20 10 71 7 14 9 00	Iowa, Maine,	MM	1879 1880 1850 1851	M	19 50 19 50 9 00 9 00
Foremen (CAR- RIAGES AND WAG- ONS).	.aa.	1082	M	9 W		M M M M	1852 1853 1854 1855 1856 1857	M M M M	9 00 9 00 9 00 9 00 9 00
('nited States. California,	M	1886	н	18 00		M	1858	M	9 00
•	Ι.		L	15 00		M	1859 1860	M	10 50 10 50
Connecticut,	M	1865	M	18 00		M	1861	M	10 60

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OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Foremen (CAR- BIAGES AND WAG- ONS) — Con.				-	Foremen (CAR- RIAGES AND WAG- ONS) — Con.				
United States - Con.			1		United States - Con.				i
Maine,	M	1862 1863	M	\$12 00 15 00	Massachusetts, .	M	1876	ml L	\$16 50 15 00
	M	1864	M	18 00		м	1877	H	21 00
	M	1865	M	18 00	1			M	18 00
	M	1866 1867	M M M	18 00 18 00		M	1878	H	15 00 21 00
	M	1868	M	18 00			[M	18 00
	M	18 69 1870	M	18 00 18 00		м	1879	L H	15 00 21 00
	M	1871	M	18 00				M	18 00
	M	1872 1873	M	18 00 18 00		M	1880	H	15 00 21 00
	M	1874	M	18 00	i]		M	18 00
	M	1875 1876	M M M	18 00 18 00		М	1883	L	15 24 25 00
	M	1877	M	18 00		M	1885	н	20 00
	M	1878 1879	M	16 50 16 50		ľ		mh M	17 81 15 00
	M	1880	M	18 00		į .		ml L	18 50 10 00
Massachusetts, .	M	1857	L	18 00 16 50		М	1891	H	30 00
	M	1858	H	18 00 16 50		l		m b Ma	25 00 21 00
	M	1859	H	18 00		ļ	1	mì	16 50
	M	1860	L H.	16 50 18 00	Michigan,	M	1891	L H	12 00 25 00
	1	i	L	16 50	Michigan,		1001	M	20 00
	M	1861	H	19 50 18 00		1		ml L	15 00 18 50
	M	1862	H	19 50	Minnesota,	M	1890	M	17 16
	M	1863	H	18 00 19 50	Missouri,	M	1872 1878	M	22 25 19 98
	1	1	L	18 00		M	1879	M	19 98
	M	1864	H	19 50 18 00		M	1880 1882	H	19 98 25 00
	M	1865	H	19 50		l	ļ	L	21 00
	M	1866	H	18 00 19 60	New York,	M	1888	H	24 00 18 00
	-		М	18 00				ml	14 25
	M	1867	L H	13 50 19 50	Ohio,	м	1850	L	10 25 9 00
	1		M L	18 00 18 50		M	1851 1852	M	9 00
	M	1868	H	19 50		M	1853	M	9 00
	1	1	M L	18 00 13 50		M	1854 1855	M	9 00
	M	1869	H	19 50		l Mr	1856	M	9 00
			M L	18 00 18 50	•	M	1857 1858	M	9 00
	M	1870	H	19 50		M	1859	M	9 00
		1	M L	18 00 13 50		M	1879	H	27 70 17 63
	M	1871	Н	21 00			1880	L	10 00 35 00
	ĺ		M L	18 00 15 00	1	M	1990	H mh	25 00
	M	1872	H	21 00 18 00		1	1	M ml	20 00 15 00
			L	15 00		1		L	9 00
	M	1873	H	21 00 18 00		M	1881 1882	M H	16 02 17 6 8
	1	1	L	15 00				L	15 90
	M	1874	H	21 00 18 00		M	1883 1884	H	15 00 26 00
			L	15 00		, "	1 2004	mh	22 00
	M	1875	H	21 00 18 00				M ml	17 50 13 50
			L	15 00		١.,		L	9 00
	M	1876	H	21 00 18 00		M	1886	H mh	30 00 27 00
	<u> </u>		<u> </u>	1	II	<u> </u>	<u> </u>	<u> </u>	<u> </u>

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIKS.	Sex	Years	Grade	Weekly Wages
Foremen (CAR- RIAGES AND WAG- ONS) — Con. United States - Con.					Foremen (CLOTH- ING) — Con. United States - Con.	,			
Ohlo,	M	1886	M ml L	\$18 00 12 00 9 00	New Jersey,	M M M	1876 1876 1877	M M M	\$85 00 85 00 81 50
Pennsylvania,	M M	1873 1888	H L H	30 00 18 00 19 98	•	M	1878 1879 1880	M M M	24 00 24 00 22 50
Wisconsin,	M M M M	1874 1875 1876 1877 1878	L M M M M	18 00 15 00 15 00 13 50 13 50 13 50		M M M M	1882 1883 1884 1885 1886	H M M M H	12 00 7 00 10 00 30 00 20 00 22 50
	M	1879 1880 1888	M M M	13 50 13 50 13 50 18 54		F	1000	mh M L M	19 98 17 50 12 00 10 02
Foreign Countries.						M	1888	H mh	25 00 22 00
England,	M	1877 1880	H L H	19 20 12 24 19 20 12 00				M ml L	20 00 14 00 13 00
Ireland,	M	1880	L M	17 76	New York,	F M M	1855 1856	M M M	12 00 18 85 13 85
Foremen (CLOTH- ING).						M M M	1857 1858 1859	M M	18 85 16 62 16 62
United States. California,	F	1888	M	9 00		M	1860 1861	M	18 46 18 46
Connecticut,	M	1887	M	16 41		M	1862	H	23 08
Kansas, Maine,	F	1889 1888	M H M L	7 50 9 00 7 50 6 00		м	1863	M L H mh	21 00 15 00 23 08 21 00
Massachusetts, .	M	1888	H mh M	50 00 40 00 85 00		м	1864	M L H	18 00 15 00 27 69
	M	1885	L H mh	25 00 40 67 32 22		м	1865	M L H	24 00 21 00 27 69
	F		M ml L H	24 00 15 00 6 90 24 00		м	1866	M L H M	24 00 21 00 40 00 30 00
	•		mh M ml	18 00 15 00 10 00		M	1867	L H M	27 69 40 00 30 00
	м	1891	L H mh	5 00 70 00 50 00		M	1868	ml L H M	27 69 24 00 40 00
	F		M ml L H	40 00 25 00 9 90 37 50		M	1869	ml L H	35 00 80 00 27 00 40 00
			mh M ml	27 00 20 00 12 50		M	1870	M L H	80 00 25 77 40 00
Michigan,	м	1884	L M	5 00 21 00				M L	30 00 25 77
Minnesota, Missouri,	F M M F	1890 1890	M M M	6 90 22 26 19 80		M	1871	H mh M	35 00 80 00 23 08 19 28
New Jersey,	M	18 69 1870	H L M M	15 00 12 00 30 00 35 00		F	1872	ml L M H	19 28 12 00 9 82 85 00
	M	1871 1872 1873	M M M	35 00 35 00 35 00		ofi.	1012	mh M L	28 85 28 08 13 50
	M	1874	M	35 00		F		M	10 18

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Foremen (CLOTH- ING) — Con.	i				Foremen (CLOTH- ING) — Con.				
United States - Con.					United States - Con.	1			
New York,	M	1873	н	\$ 36 00	Pennsylvania,	M	1840	M	\$12 00
			mh M	28 85 23 08		M	1845 1850	M M	12 00 12 00
	_		L	13 50		M	1855	M	12 00
	F M	1874	M H	10 72 40 00		M	1860 1865	M M	12 00 15 00
			M ml	28 85 23 08		M	1870 1875	M	20 00 16 00
	_		L	12 00		M	1880	M	16 00
	F	1875	M	9 89 45 00	Wisconsin,	M	1888	M	28 32
	_		mh	38 46 25 96	Foreign Countries.				
			M ml	25 96 18 50	Bavaria,	M	1882	M	4 76
	F		L M	12 00 10 43	Foremen (Cook-				
	M	1876	н	45 00	ING, LIGHTING,				
			mh M	84 62 25 96	AND HEATING APPARATUS).				
	l		mi	18 00 12 00	United States.	1			
	F		L M	10 55	Connecticut,	М	1868	М	23 08
	Ж	1877	H mh	40 00 34 62		M	1869 1870	M M	23 08 23 08
			M	25 96		M.	1871	M	23 08
			ml L	16 50 12 00		M	1872 1873	M	23 08 28 85
	F	1878	M H	8 89 40 00		l M	1874	M	28 85 84 62
	147	1010	mh	34 62		M	1875 1876	M	34 62
			M ml	27 69 15 00		M	1877 1878	M	34 62 23 08
	F		L M	9 00		M	1879	M	23 08
	M	1879	H	40 00	Illinois,	M	1880 1850	M	28 85 13 85
			mh M	34 62 28 85		M	1851 1852	M M	13 85 16 15
	_		L	15 00		M	1853	M	16 15
	F	1880	M H	10 09 40 00		M	1854 1855	M	16 15 17 31
			mh M	30 00		M M	1856	M	17 31
			ml	21 00 15 00		M	1857 1858	M	17 31 17 31
	F		L M	9 00 9 73		M	1859 1860	M	17 31 18 46
	M	1888	H	36 00		M	1861	M	20 77
			mh M	27 00 20 00		M M	1862 1863	M	20 77 23 08
		l	ml L	14 00 9 00		M	1864 1865	M M	23 08 23 08
	F		H	19 00		M	1866	l Ma	23 08
			mh M	15 00 12 00		M M	1867 1868	M	23 08 23 08
			ml	8 00 4 50		M	1869	M	23 09 23 08
Ohio,	М	1878	H	75 00		М	1870 1871	M	23 08
			M L	25 00 15 00]	M	1872 1873	M M	23 08 23 08
	F		H	20 00		M	1874	M	28 85
	M	1380	H	10 00 60 00	İ	M	1875 1876	M M	28 85 28 85
			mh M	50 00 35 00		M M	1877 1878	M M	28 85 28 85
			ml	25 00		M	1879	M	28 85
	М	1884	L H	12 00 75 00		M M	1880 1886	M	28 85 24 00
		_	mh	50 00		-		M	18 00
			M ml	35 00 25 00	Indiana,	M	1877	L M	13 50 18 46
			L	12 00	İ	M	1878	M	18 46

Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Foremen (Cook- ING, LIGHTING, AND HEATING AP- PARATUS) — Con. United States - Con.					Foremen (Cook- ING, LIGHTING, AND HEATING AP- PARATUS) — Con. United States - Con.				
Indiana,	м	1879	M	\$23 08	New York, .	M	1872	L i	\$18 00
•	M	1880	M	23 08	Now Tork,	M	1873	H	34 62
Massachusetts, .	M	1861 1862	M	15 38 15 38		\ v	1074	L	18 00
	M	1863	M	15 38		M	1874	H	84 62 18 00
	M	1864	M	15 38		M	1875	H	34 62
	M	1865 1866	M	17 31 17 31		M	1876	H	18 00 34 62
	M	1867	M	28 85				L	18 00
	M	1868 1869	M	23 08 23 08		M	1877	H	23 08 18 00
	M	1870	M	28 85		M	1878	Ĥ	28 85
•	M	1871	M	30 00 30 00		1,,	1000	L	18 00
	M	1872 1873	M	80 00		M	1879	H	31 15 18 0 0
	M	1874	M	34 62		1		L	11 54
	M M	1875 1876	M	84 62 19 23		M	1880	H M	34 62 18 00
	M	1877	M	19 28		1		L	12 69
	M	1878 1879	M	19 23 15 38		M	1886	H mh	30 00 25 02
	М	1880	M	15 38			ĺ	M	22 02
	M	1885	H	21 00		1	i	ml	18 00
			mh M	18 00 15 00		M	1888	H	12 96 24 00
			ml	14 00	ļ		1000	mh	21 00
	M	1891	H	10 50 28 00			l	M ml	18 00 15 00
		i	L	20 00			1	L	12 00
Michigan,	M	1884 1886	M	12 00 89 00	Ohio,	M	1870 1871	M	13 85
		1000	mh	31 50		M	10/1	H	24 00 17 31
		i	M	27 00		M	1872	н	24 00
			ml T.	19 50 13 50		M	1873	H	17 31 24 00
	M	1891	H	25 00		-		Ĺ	17 31
	Ī		mh Ma	21 00 18 00		M	1874	H	24 00
	1		ml	15 00		M	1875	H	13 85 24 00
Missouri,	M	1860	L	12 50 34 62		M	1876	L	13 85
Missouri,	M	1861	M	46 15		M	1910	H L	24 00 13 85
	M	1862	M	46 15		M	1877	H	35 00
	M	1863 1864	M M	46 15 46 15		1		M ml	24 00 18 00
	M	1865	M	46 15				L	12 00
	M	1866 1867	M	57 69 57 69		M	1878	H L	24 00 13 85
	M	1868	M	57 69	i	M	1879	Ĥ	24 00
	M	18 69 1870	M M	57 69 57 69	<u> </u>			M L	18 00 13 85
	M	1871	M	57 69		M	1880	Ħ	25 00
	M	1872 1873	M M	57 69 57 69				mh	22 50
	M M	1874	M	57 69		i	1	M ml	18 48 15 00
	M	1875	M	57 69		1		L	12 00
	M	1876 1877	M	57 69 57 69		M	1881 1882	H	24 00 19 98
	M	1878	M	57 69				L	16 86
	M	1879 1880	M	57 69 57 69		M	1886	H mh	40 00 30 50
New York,	M	1867	M	18 00				M	25 00
•	M	1868	M	18 00			ĺ	ml	18 00
	M	1869 1870	H	18 00 27 69	Pennayivania,	М	1871	L M	12 50 27 00
			L	18 00		M	1872	M	30 00
	M	1871	H	28 85 18 00		M	1873 1874	M	30 00 24 00
	M	1872	Й	28 85	1	M	1875	M	22 50

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OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Foremen (Cook- ING, LIGHTING, AND HEATING AP- PARATUS) — Con.					Foremen (FOOD PREPARATIONS) —Con. United States-Con.				
United States - Con. Pennsylvania,	M	1876	н	\$21 00	Massachusetts, .	M	1891	н	\$30 00
2 02	1	İ	L	18 00		_		mh	25 00
	M	1877 1878	M H	21 00 21 00		Ī		M ml	21 00 16 00
	м	1879	IL M	13 50 24 00		F		L H	12 00 12 00
	M	1800	M	28 50		1		M	10 00
	M	1886	M	18 00		l		ml L	8 00 6 00
Foremen (FOOD					Michigan,	M	1884	H	30 00
PREPARATIONS).					•		_	mh M	24 00 18 00
United States. California,	м	1885	н	24 00			•	ml L	12 00 8 70
Camornia,		1000	L	20 00	Minnesota,	M	1890	H	21 00
	P		H	10 50 7 00	Missouri,	м	1879	L H	14 70 25 00
	M	1886	H	12 00		-		M	20 00
	M	1888	H	9 00 23 07		M	1886	L M	15 00 41 52
	F	ł	L H	20 00 18 00		M	1887	H	15 00 12 00
	1		mh	15 00		M	1890	H	39 96 29 94
		ļ	ml	10 50 9 00		1		mh M	25 92
Connecticut,	м	1887	L M	7 00 30 00				ml	19 20 12 00
Illinois,	M	1870	M	12 00	New Jersey,	M	1884	H	20 00
	M	1871 1872	M	12 00 12 00		M	1885	L M	18 00 20 00
	M	1873	M	12 00	New York,	M	1883	H	18 00
	M	1874 1875	M	13 50 18 50				Mmi	15 00 10 00
	M	1876 1877	M	13 50 18 50		м	1884	L H	8 00 18 00
	M	1878	M	12 00		-	1002	M	15 00
Iowa,	M	1879 1885	M	12 00 14 04				ml L	10 00 8 00
Kansas,	M	1886	H	15 00 9 00	1	M	1885	H mh	18 00 16 00
	M	1887	M	16 50				M	15 00
Maine,	M	1890 1866	M	80 00 12 00	ł	İ		I.	12 00 10 00
	M	1867	M	12 00		М	1886	H	23 00 20 00
	M	1868 1869	M	12 00 12 00				mh M	18 00
	M	1870 1871	M	12 00 12 00				ml L	15 00 13 00
	M	1872	M	11 00		M	1887	H	23 00
	M	1873 1874	M	15 00 15 00				mh M	20 00 18 00
	M	1875 1876	M	15 00 15 00	}	l		ml L	15 00 12 00
	M	1877	M	15 00		M	1888	H	24 00
	M M	1878 1879	M M	15 00 13 50	ķ			mh M	20 00 16 00
Maryland,	M	1880 1885	M	13 50 20 00				ml L	12 30 9 00
• •	l	1	L	15 00		F		Ĥ	10 00
Massachusetts, .	M	1883	H	30 00 24 00	Ohlo,	м	1877	L	6 50 30 00
			ml	19 23	,	_		M	25 00
	M	1885	H	15 00 25 00				mi L	22 49 19 00
			mh M	20 00 17 31		M	1880	H mh	30 00 23 00
		1	ml	13 50	1			M	20 00
	F		L M	9 00 6 00				ml L	13 80 8 25
	l	<u></u>	l	l	<u> </u>	l		l	

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OCCUPATIONS, STATES, AND COUNTRIES.	šex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Foremen (FOOD PREPARATIONS) — Con.					Foremen (FURNI- TURE) — Con.				
United States - Con.	} :			Ì	United States - Con.		1	1	
Ohio,	M	1882	Ħ	\$19 98	Illinois,	M	1872	L.	\$9 28 18 00
	M	1884	H	16 62 80 00		M	1873	H	16 15
	-		mh	28 00				L	9 23
	1		M ml	18 00 13 50		M	1874	H	18 00 16 15
	١,		L.	8 00		1	l	M	18 85
	M	1886	H	50 00		١.,		L.	9 28
	1		mh M	45 00 80 00		M	1875	H mh	18 00 16 50
			ml	18 50		1		M	18 85
Wisconsin	M	1888	L H	7 00 18 24		м	1876	L	10 38 18 00
At tecometri,	-	1000	M	15 48			10.0	mh	16 62
		•	L	11 52]	1	M	13 85
Foreign Countries.			Į į			м	1877	H	10 88 18 46
Australia,	M	1878	M	14 40	1	-	1	M	15 00
England,	M	1889 1849	M	6 24 6 24	1	м	1878	H	10 88 23 08
	M	1859	M	6 24			1010	M	18 00
	M	1861	M	7 20		1	j	ml	15 00
Great Britain,	M	1888	H	12 17 9 78	l	м	1879	L L	11 54 23 08
			L	6 98		_	120.0	H	18 46
Ireland,	M	1858	M	5 76		ĺ	ı	mi L	15 00 12 69
Foremen (FURNI:			i '			м	1880	Ħ	25 17
TURE).								M	18 00
United States.	1		i			1	1	ml L	15 00 12 69
Arkansas,	M	1880	M	23 08		M	1885	H	25 77
California,	M	1870	M	84 62 84 62 84 62	T- 41	M	1858	L M M	12 69
	M	1871 1872	M	84 62	Indiana,	M	1859	M	11 54 11 54 9 28
	MMMM	1878	M	84 62		M	1860	M	9 28
	W	1874 1875	: M	84 62 84 62		M	1861 1862	M	11 54 11 54
	M	1876	M	81 62	1	M	1868	M	12 69
	M	1877	M	84 62	1	M	1864	W	18 85
	M	1878 1879	M	84 62 84 62	İ	M	1865 1866	M	15 00 16 15
	MMMMMM	1880	M	46 15		M	1867	M	16 15
Connecticut,	W	1885 1860	W.	46 15 15 00		М	1868	H	18 00 16 15
Connecticut,	X	1861	M	16 15	ļ	м	1869	Ħ	18 00
	MMMM	1862	M	17 81 18 46		м	1870	L.	16 15 18 00
	M	1868 1864	M	18 46 18 46		M	1870	H	16 15
	M	1865	M	18 46		М	1871	H	18 00
	M	1866 1867	M	19 61 19 61		M	1872	H	16 15 18 00
	M	1868	M	19 61		l		L	16 15
	M	1869	M	18 46 17 81		M	1873	H	28 08 18 00
	M M M	1870 1871	M M M	17 81		ļ	1	T.	16 15
	M	1872	M	16 15		М	1874	H	23 08
	W	1878 1874	M M M	16 15 16 15		1	l	M L	16 15 18 85
	V	1875	M	16 15		M	1875	H	23 08
	M	1876	Ä	16 15		l	1	Μ̈́	16 15
	M M M M M M M M M	1877 1878	M	16 15 16 15		м	1876	H	18 85 23 08
	X	1879	X	16 15		_		M	16 15
	W.	1880 1880	M M	16 15 9 00		м	1877	L H	13 85 19 61
Georgia			-		11	,	1 -3	M	16 15
Georgia, Llinois,	M	1871	H	16 15	11	ı) AL.	10 19
	M	1871	L	14 76			1070	L	18 85
	M M			16 15 14 76 16 50 14 76		м	1878	L H M	18 85 19 61 16 15

					WHO 20 COM.				
Occupations, States, and Coun- triks,	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Foremen (FURNI- TURE) — Con.					Foremen (FURNI- TURE) — Con.				
United States - Con.			!_	اً ۔۔۔ ۔۔ اُ	United States - Con.			_	
Indiana,	M	1878 1879	L H M	\$13 85 19 61 16 15	Kentucky,	M	1875 1876	L H L	\$17 81 88 31 17 81
	M	1880	L H	13 85 21 92		M	1877	H	38 31 17 31
	м	1886	M L M	18 00 16 15 18 00		M	1878	H L H	38 31 17 81 38 31
Iowa,	M	1874 1875	M	13 85 13 85		M	1880	H	17 31 88 31
	MM	1876 1877 1878	M M M	13 85 13 85 18 86	Massachusetts, .	M	1866 1867	L M M	17 31 23 08 23 08
	M	1879 1880	M	13 85 13 85		M	1868 1869	M	23 08 23 08
Kansas	M	1885 1870	M M M	13 85 23 08		M	1870 1871	M M	23 08 23 08
	M	1871 1872	M	23 08 23 08		M	1872 1878	M	23 08 23 08
	M M M	1878 1874	M M M	23 08 23 08		M	1874 1875	M	32 55 32 55
	I M	1875 1876	I ML	23 08 23 08		M M M M M M M M M M M M	1876 1877	M	82 55 82 55
	M	1877 1878	M	23 08 23 08		M	1878 1879	M	21 00 21 00
	M	1879 1880	M	23 08 23 08		M	1880 1883	M H	21 00 21 00
Kentucky,	M	1858 1859	M	17 81 17 81				mh M	16 50 14 00
	M	1860	H	18 46 17 31				ml L	12 00 6 00
	M	1861	H M	84 62 18 46 17 81		M	1885	mb M	20 00 17 50 15 00
	M	1862	L H L	34 62 18 46				mi L	12 00 9 00
	M	1863	H	34 62 18 46		F	1891	H	7 50 30 00
	M	1864	H	84 62 18 46				mh M	25 00 21 00
	M	1865	H	34 62 18 46		_		ml L	16 50 12 00
	M	1866	H M	84 62 23 08	Michigan	F	1865	r H	12 00 6 00 23 08
	M	1867	H M	18 46 34 62 23 08	Michigan,	M	1866 1867	M	23 08 23 08
	м	1868	H M	18 46 34 62 23 08		M M M M M M M M M M M M M M M M M M M	1868 1869 1870	M M M	25 88 25 88 23 08
	м	1869	L	18 46 84 62		M	1871 1872	M	23 08 23 08
	_		M L	23 08 18 46		M	1873 1874	M	23 08 20 77
	М	1870	H	34 62 23 08		M	1875 1876	M M	18 46 18 46
	M	1871	H	18 46 38 31		Ж	1877 1878	M	17 81 20 77
		1000	M L	23 08 18 46		M.	1879 1880	M M	20 77 20 77
	M	1872	H M L	38 31 23 08 18 46		_	1884	H M L	18 00 16 50 15 00
	М	1873	H	38 31 23 08		M	1886	H mh	27 00 21 00
	M	1874	L H M	18 46 38 31 23 08				ml L	18 00 13 50 9 00
	M	1875	L	17 31 38 31		M	1890	H	24 00 19 23
		1 20.0		""			l .	l	1 3

Minnesota, M 1800 H 16 68 L 14 94 M 1860 H 27 M 1870 M 1846 M 1860 H 28 M 24 00 M 1860 H 28 M 24 00 M 1885 M 24 00 M 1870 H 23 M 24 00 M 1885 M 24 00 M 1870 H 23 M 24 00 M 1870 H 28 M 24 00 M 1870 H 28 M 24 00 M 1870 H 28 M 24 00 M 1870 H 28 M 24 00 M 1870 H 28 M 24 00 M 1870 H 28 M 24 00 M 1870 H 28 M 24 00 M 1870 H 28 M 24 00 M 1870 H 28 M 24 00 M 1870 H 28 M 24 00 M 1870 H 28 M 24 00 M 1870 H 28 M 24 00 M 1870 H 28 M 24 00 M 1870 H 28 M 24 M 24 M 24 M 24 M 24 M 24 M 24 M	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Minnesota, . M 1890 M 1800 M 100 50 M 1800 M 1800 M 100 50 M 1800 M 1800 M 100 50 M 1800 M 1800 M 100 50 M 1800 M 1800 M 100 50 M 1800 M 1800 M 100 50 M	TURE) — Con.					TURE) - Con.				
Minnesota, M 1890 L							١		۱_	
Missouri,				ml L	9 00	New York,			H mb	28 85 27 69
M 1870 M 18 46 M 1882 M 24 00 M 1882 M 24 00 M 1884 M 9 00 M 1885 M 9 00 M 1885 M 9 00 M 1885 M 9 00 M 1887 M 1887 M 1888 M 9 00 M 1887 M 1888 M 9 00 M 1887 M 1888 M 9 00 M 1887 M 1888 M 1889 M 18	•			L	14 94				L	18 00
M 1854 M 9 00 M 1855 M 0 00 M 1858 M 0 00 M 1858 M 0 00 M 1858 M 0 00 M 1858 M 25 0 M 1860 M 1870 M 1870 M 1870 M 1871 M 12 00 M 1872 M 12 00 M 1873 M 12 00 M 1874 M 12 00 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1876 M 1870 M 1877 M 20 00 M 1876 M 1876 M 1877 M 20 00 M 1876 M 1870 M		M	1879 1880 1882	M M M	18 46 16 50 24 00				M ml L	25 38 19 38 18 00
M 1860 M 8 40 M 1871 L 19 M 1861 M 8 40 M 1862 M 8 40 M 1863 M 10 50 M 1865 M 10 50 M 1865 M 10 50 M 1867 M 10 50 M 1867 M 10 50 M 1877 M 1870 M 1871 M 12 00 M 1872 M 12 00 M 1874 M 12 00 M 1876 M 1877 M 12 00 M 1876 M 1877 M 12 00 M 1877 M 12 00 M 1877 M 12 00 M 1877 M 12 00 M 1877 M 12 00 M 1877 M 12 00 M 1877 M 12 00 M 1877 M 12 00 M 1876 M 1877 M 1800 M 1877 M 1800 M 1877 M 1800 M 1878 M 9 60 M 1878 M 9 60 M 1878 M 9 60 M 1878 M 9 60 M 1878 M 10 80 M 1878 M 10 80 M 1878 M 10 80 M 1877 M 1880 M 11 07 M 1885 M 11 07 M 1885 M 11 07 M 1885 M 11 07 M 1885 M 11 07 M 1886 M 1886 M 1886 M 1886 M 1886 M 1886 M 1886 M 1886 M 1886 M 1886 M 1886 M 1886 M 1886 M 1886 M 1886 M 1886 M 1886 M 1880		M	1854 1855	M	9 00				M L	24 00 19 38 28 85
M 1862 M 3 40 M 1873 H 30 M 1864 M 10 50 M 1885 M 10 50 M 1885 M 10 50 M 1886 M 10 50 M 1887 M 23 M 23 M 24 M 25		M	1857 1858 1859	M M M M	9 00 9 00 8 40				mh M L	25 38 24 00 19 38
M 1866 M 10 50 M 1868 M 10 50 M 1888 M 10 50 M 1888 M 10 50 M 1871 M 12 00 M 1872 M 12 00 M 1872 M 12 00 M 1875 M 12 00 M 1875 M 12 00 M 1875 M 10 80 M 1876 M 10 80 M 1877 M 9 60 M 1877 M 9 60 M 1878 M 9 90 M 1878 M 9 90 M 1878 M 10 80 M 1879 M 10 80 M 1879 M 10 80 M 1879 M 10 80 M 1870 M 11 07 M 1850 M 11 07 M 1851 M 11 07 M 1852 M 11 07 M 1858 M 11 64 M 1855 M 11 64 M 1850 M 11 64 M 1860 H 13 85 M 1861 H 13 85 M 1861 H 23 88 M 1862 M 1860 M 1864 M 1800 M 1865 M 1860 M 1880 M 1866 M 1860 M 1880 M 1866 M 1860 M 1880 M 1866 M 1860 M 1880 M 1866 M 1860 M 1880 M 1888 M 1866 M 1860 M 1880 M 1888 M 1866 M 1860 M 1880 M 1888 M 1866 M 1860 M 1880 M 1888 M 1866 M 1860 M 1880 M 1888 M 1866 M 1860 M 1880 M 1888 M 1866 M 1860 M 1880 M 1888 M 1866 M 1860 M 1880		MM	1862 1863 1864	M M M	8 40 10 50 10 50		м	1873	M L	19 38 30 00
M 1870 M 12 00 M 1872 M 12 00 M 1873 M 12 00 M 1875 M 12 00 M 1875 M 10 80 M 1876 M 10 80 M 1877 M 9 60 M 1878 M 9 60 M 1878 M 9 60 M 1878 M 9 60 M 1879 M 1800 M 1877 M 1880 M 11 07 M 1885 M 11 07 M 1885 M 11 07 M 1885 M 11 07 M 1885 M 11 54 M 1885 M 1885 M 11 54 M 1885 M 12 10 M 1885 M 12 10 M 1885 M 12 10 M 1885 M 12 10 M 1885 M 1885 M 12 10 M 1885 M		M	1865 1866 1867	M M M	10 50 10 50 10 50				M ml	28 85 23 08 21 00
M 1873 M 12 00 M 1875 M 12 00 M 1875 M 10 80 M 1877 M 9 60 M 1878 M 9 60 M 1879 M 9 60 M 1879 M 9 60 M 1879 M 9 60 M 1879 M 11 07 M 1851 M 11 07 M 1852 M 11 07 M 1852 M 11 54 M 1853 M 154 M 1855 M 11 54 M 1855 M 11 54 M 1855 M 11 54 M 1857 M 11 54 M 1857 M 11 07 M 1856 M 11 54 M 1857 M 11 07 M 1858 M 11 54 M 1857 M 11 07 M 1858 M 11 54 M 1857 M 11 07 M 1858 M 11 54 M 1859 M 11 54 M 1859 M 11 54 M 1859 M 11 54 M 1859 M 11 54 M 1859 M 11 54 M 1850		M	1869 1870 1871	M M M	10 50 10 50 12 00		M	1874	mh M	33 23 30 00 23 08
M 1877 M 9 00 M 1879 M 9 00 M 1880 H 17 31 L 10 80 M 1851 M 10 7 M 1852 M 11 07 M 1853 H 11 54 L 9 00 M 1855 M 11 54 M 1855 M 11 54 M 1856 M 11 54 M 1856 M 11 54 M 1856 M 11 54 M 1856 M 11 54 M 1857 M 11 07 M 1858 M 11 54 M 1859 M 11 54 M 1859 M 11 54 M 1859 M 11 54 M 1860 H 13 85 L 11 07 M 1862 H 13 85 L 11 07 M 1862 H 13 85 L 11 07 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1863 H 13 85 L 11 107 M 1864 H 23 08 M 18 00 L 11 6 62 M 18 00 L 16 62 M 18 00 M 18		M M	1878 1874 1875	M M M	12 00 12 00 10 80		M	1875	mh M	83 23 30 00
New York, M 1850 M 11 07 M 1851 M 11 07 M 1852 M 11 07 M 1853 H 11 54 M 1855 M 11 54 M 1855 M 11 54 M 1855 M 11 54 M 1859 M 11 54 M 1859 M 11 54 M 1859 M 11 54 M 1859 M 11 54 M 1850 M 1850 M 11 54 M 1850 M 11 54 M 1850 M 11 54 M 1850 M 11 54 M 1850 M 11 54 M 1850 M 11 54 M 1850 M 11 54 M 1850 M 11 54 M 1850 M 11 54 M 1850 M 11 54 M 1850 M 11 54 M 1850 M 11 54 M 1850 M 11 54 M 1850 M 11 54 M 1850 M 11 54 M 1850 M 11 54 M 1850 M 11 54 M 1850 M 1850 M 11 54 M 1850 M 1850 M 11 54 M 1850 M		M	1877 1878 1879	M M M	9 60 9 60 9 60		M	1876	mh M	88 23 30 00
M 1858 H 11 54 L 9 00 M 1855 M 11 54 M 1856 M 11 54 M 1856 M 11 54 M 1857 M 11 07 M 1859 M 11 54 M 1859 M 11 54 M 1850 M 1388 M 120 M 1860 H 13 85 L 11 07 M 1861 H 13 85 L 11 07 M 1862 H 13 85 L 11 07 M 1863 H 18 80 L 15 4 M 1860 H 33 mh 30 mh	New York,	M	1850 1851	L M M	10 80 11 07 11 07		M	1877	H mh	19 38 33 23 30 00
M 1856 M 11 54 M 120 M 1857 M 11 07 M 1868 M 11 54 M 1859 M 11 54 M 1860 H 13 85 L 11 07 M 1861 H 13 85 L 11 07 M 1862 H 13 85 L 1 10 7 M 1863 H 18 00 L 13 85 M 1863 H 18 00 L 13 85 M 1865 H 25 38 M 1865 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 M 23 08 M 1866 M 23 08 M 1866 M 23 08 M 1861 M 23 08 M 1861 M 23 08 M 1861 M 23		M	1858 1854	H L M M	11 54 9 00 11 54		м	1878	mi L H	20 00 18 00 83 23
M 1860 H 18 85 L 11 07 M 1861 H 13 85 L 13 85 M 1860 H 13 85 M 1860 H 13 85 M 1860 H 18 85 M 1865 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 H 25 38 M 1866 M 23 38 M 1861 M 23 38 M 1861 M 23 38 M 1861 M 23 38 M 1861 M 23 38 M 1861 M 23 38 M 1861 M 23 38 M 1861 M 23 38 M 1861 M 23 38 M 1861 M 23 38 M 1861 M 23 38 M 1861 M 23 38 M 1861 M 23 38 M 1862 M 23 38 M 1862 M 23 38 M 1861 M 23 38 M 1862 M 23 38 M 1862 M 23 38 M 1862 M 23 38 M 1862 M 23 38 M 1862 M 23 38 M 1862 M 23 38 M 1862 M 23 38 M 1862 M 23 38 M 1862 M 23 38 M 1862 M 23 38		M M M	1856 1857 1858	M M M	11 54 11 07 11 54		м	1879	M ml L	23 08 20 00 18 00
M 1862 H 18 85 M 1880 H 33 mh 30 ml 32 ml		M	1860	H	18 85 11 07 13 85				mh M ml	30 00 23 08 19 38
M		M	1862	H	18 85		M	1880	H	38 23
M			l	H	18 00 13 85				M	25 38 22 00
M 1865 H 25 38 M 1888 H 25 mh 21 M 1888 H 25 mh 21 M 1866 H 25 38 mh 21 M 18 mi 15 L 12 M 1860 M 23 M 1861 M 23 M 1861 M 23 M 1867 H 28 85 M 1867 M 1862 M 28 85 M 1867 M 28 85 M 1867 M 28 85 M 1867 M 28 85 M 1868 M 23		M	1864	M	23 08 18 00		М	1885	H	19 38 33 28
M 1866 H 25 88 mh 23 08 mh 18 00 Obio, M 1860 M 23 M 1867 H 28 85 M 1861 M 23 M 1862 M 23		M	1865	H	25 38 18 00		М	1888	H mb	21 00
M 1867 H 28 85 M 1862 M 23		M	1866	H mb M	25 38 23 08 18 00	Ohio,	M		ml L M	15 00 12 00 23 08
		M	1867	H	28 85 27 69		M	1862 1863	M	23 08 23 08 23 08 23 08

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OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES,	Sex	Years	Grade	Weekly Wages
Foremen (FURNI- TURE) — Con.					Foremen (FURNI- TURE) — Con.				
I'nited States - Con.	١.				United States - Con.		l		}
Ohio,	M	1865	M	\$23 08	Pennsylvania,	M	1870	L	\$13 85
	M	1866 1867	M M	23 08 23 08	1	M	1871	H	23 08 13 85
	M	1863	M	28 08		M	1872	Ħ	23 08
	M	1869 1870	M H	23 98 23 08		м	1878	H	13 85 23 08
	1		L	15 00		-	1010	M	22 00
	M	1871	H	28 08 15 00		M	1874	H	18 85 23 08
	М	1872	H	23 08		_	1014	mh	22 00
•	M	1873	L H	15 00 23 08		1	İ	M L	18 46 18 85
	-	1010	Ĺ	15 00		м	1875	Ħ	23 08
	M	1874	Ħ	18 46 15 00	-	1		mh	21 69 18 46
	M	1875	H	18 46]	}	M L	18 46 13 85
	1	1070	L	15 00		M	1876	H	28 08
	M	1876	H	18 46 15 00		ļ	l	mh M	20 00 18 46
	M	1877	H	18 46				L	13 85
	м	1878	H	15 00 18 46		M	1877	H mh	28 08 21 69
		1	L	15 00		Į.	1	M	18 46
	M	1879 1880	H	17 91 25 00		м	1878	H	11 54 23 09
	_		mh	21 00		1 -		M	18 46
			M ml	17 00 18 00		1	١.	ml L	14 62 11 54
	١		L	9 00		M	1879	H	23 08
	M	1882 1883	H	16 74 16 50			l	mh M	20 00 18 46
	-	2000	M	14 00		1	ŀ	ml	15 00
	м	1884	H	11 05 30 00		м	1880	H	11 52 23 08
	-	2002	mh	25 00			1000	mb	21 00
			ml	20 00 14 00		1		M L	18 46 11 54
			L	9 00	1	M	1885	H	21 00
	M	1886	mh	80 00 25 00		M	1888	H	11 54 18 00
			M	20 00		_	1000	M	16 50
			ml L	13 50 9 00	Wisconsin	M	1861	L M	15 00 7 69
Pennsylvania,	м	1850	M	11 07	William	M	1862	l M	11 54
	M	1852 1858	M	11 07 11 07		M	1863 1864	M	19 23 19 23
	M	1854	M	11 07		M	1865	M	19 28
	M	1855	M	11 07		M M M M	1866	M M M	19 28
	M	1856 1857	M	11 07 11 07	ĺ	M	1867 1868	M	19 23 19 23
	M	1858	M	11 07		M	1869	l MX	19 23
	M	1859 1860	M	11 07 11 07	}	M	1870 1871	M	19 23 19 23
	M	1861	M	11 07		M	1872	M	19 23
	M	1862 1863	M	11 07 18 85		M	1878 1874	M	19 23 15 88
	M	1864	H	17 81		l M	1875	M	15 88
	M	1005	L.	13 85	!	M	1876	M	15 88
		1865	H	17 81 13 85		M	1877 1878	M M M	15 38 15 38
	M	1866	H	17 31	l .	M	1879	H	19 23
	м	1867	H	13 85 17 81		м	1880	H	15 00 19 23
	м	1868	L H	13 85		м	1888	L	15 00
	1	1	L	18 46 18 85		-	1006	L	17 34 15 00
	M	1869	H	18 46 18 85					
	м	1870	H	23 08	Foreign Countries.]		
			M	18 46	Germany,	M	1877	M	6 00
	<u> </u>	!	1		1		<u> </u>	<u> </u>	

	GKE	DEL	WE	SEKLY	WAGES - Conti	nue	a		
OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Foremen (GAS AND RESIDUAL PRODUCTS).					Foremen (GAS AND RESIDUAL PRODUCTS) - Con.				
United States.					United States - Con.				
Connecticut,	M	1874	mh M ml	\$36 00 27 00 25 02 19 02	New York,	M	1888	M mh M ml	\$30 00 25 88 21 00 16 56
Massachusetts, .	М	1858 1854	L M M	11 52 16 00 16 00	Ohio,	M	1877	L H L	12 00 17 00 13 85
	M	1855 1856	M M	16 00 16 00	Wisconsin,	М	1888	M	15 54
	M	1857 1858	M	16 00 16 00	Foreign Countries.				
	M	1859 1860 1861	M M M	16 00 16 00 16 00	England,	, M	1886 1866	M	8 51 7 80
	M	1862 1868 1864 1865	M	16 00 16 00 16 00	Foremen (MA- CHINES AND MA- CHINERY).	! 		[[
	M	1866	M	16 00 16 00	United States.	1			
	M	1867 1868 1869	M	16 00 16 00 16 00	California,	M	1886	mh M	48 00 40 00 33 00
	И М М М М М	1870 1871 1872 1878 1874 1875 1876	M M M M M	16 00 16 00 16 00 16 00 16 00 16 00	Connecticut,	M M M	1870 1871 1872 1878 1874	M M M M M	24 00 15 00 18 46 18 46 18 46 18 46 18 46
	M	1877 1878 1879 1880 1885	M M M H mh	16 00 16 00 16 00 16 00 26 00 24 00		MMM	1875 1876 1877 1878 1879 1880	M M M M M	18 46 18 46 18 46 18 46 18 46 18 46
	M	1891	M mi L H M	19 50 15 00 12 00 17 80 15 00	Illinois,	M	1887 1886 1889 1876	M H L M M	38 64 19 50 13 50 19 50 17 31
New Jersey,	M	1867	L H	18 20 18 00		M	1877 1878	M	17 31 17 31
	M	1868	L H L	12 00 18 00 13 50	Massachusetts, .	M	1879 1880 1850	M M M	17 31 18 46 15 00
	M	1869	H	18 00 18 50	-	M	1851 1852	M	15 00 15 00
	M	1870 1871	H L H	21 00 13 50 21 00		M M M	1853 1854 1855	M	15 00 15 00 15 00
	M	1872	H	15 00 21 00		M	1856	N L	12 96 15 00
	M	1878	L H	15 00 21 00		M	1000	M M	16 50 16 50
	М	1874	L H L	18 00 21 00 18 00		M	1859 1860	M H M	16 50 16 50 15 00
	M	1875	H L	18 00 15 00		M	1861	L M	12 00 18 00
	M	1876	H	18 00 15 00		M	1862 1868	M	18 00 18 00
	M	1877	H L H	18 00 15 60 18 00		M	1865	M	21 00 24 00
	M	1878	L H	18 00 15 00 18 00		M	1866 1867	H	24 00 17 81
	M	1880	L	15 00 15 00 15 00		M	1868	H L M	24 00 17 31 23 08
	Ι –		Ī.	18 50	ĺ	M.	1869	M	23 08

Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Forenien (Ma- chines and Ma- chinery)—Con. United States-Con.					Foremen (MA- CHINES AND MA- CHINERY) — Con. United States - Con.				
Massachusetts, .	M	1870	M	824 00	North Carolina.	М	1890	M	\$24 00
•	M M	1871 1872	M	24 00 24 00	Ohio,	M	1872	H M	25 00 23 08
	M	1878	H	25 38		ļ		L	21 00
	м	1874	H	23 08 25 38		M	1873	H	30 00 25 00
			L	23 08		M	1874	H	30 00
	М	1875	H	27 69 28 08		м	1875	H	25 00 30 00
	M	1876	H	28 85 23 08		M	1876	L H	25 00 25 00
	м	1877	H	28 85				L	21 00
	M	1878	H	23 08 28 85		M	1877	H mh	40 00 85 00
	-		M	24 00				M	25 00
	м	1879	H	18 46 34 62				mi L	18 00 12 00
			M L	24 00 17 31		M	1878 1879	M	20 16 20 00
	М	1880	H	34 62		M	1880	Н	40 00
			M L	25 00 18 46		ļ		mh M	30 00 25 00
	M	1883	H	50 00 30 00		l		ml L	17 50 10 50
		1	mi	21 60		M	1881	H	23 70
	M	1885	H	13 50 30 00		1		mh M	21 00 18 00
	_	1000	mb	27 00		1		ml	16 50
	1		M ml	22 00 18 00		M	1882	H	15 00 20 04
	м	1001	L	13 50			1	L H	16 50
		1891	H mh	S3 00	I	M	1883	M	25 00
	l	Ì	M ml	24 00 16 50		ł	1	ml L	18 00 14 40
	١		L	14 00		M	1884	H	40 00
Michigan,	M	1884	H	30 00 21 00		l		mh M	32 00 26 00
)	ĺ	ml L	18 00 13 50		l		ml	19 00 12 00
	M	1891	Ħ	30 00		М	1886	H	50 00
			mh M	27 00 22 50		l		mh M	40 00 30 30
	1		ml	18 50	1		i	mi	21 00
Minnesota,	M	1890	H	15 00 23 28	Pennsylvania,	М	1869	L	12 00 21 33
Missouri	м	1879	H	19 80 20 00		M	1870 1876	H	22 97 36 00
•		1	L	18 00			1010	mh	30 00
New Jersey,	M	1882 1884	M	12 00 45 00				M ml	23 40 16 50
	M	1885	M	24 00 25 00			1070	L H	10 50 21 00
	M	1888	H	15 00		M	1878	mh	18 00
New York,	M	1868 1869	M	80 00 30 00		l		M L	15 00 18 20
	M	1872	M	18 00		M	1879	H	29 40
	M	1878 1874	M	18 00 18 00		ł		mh M	24 00 18 00
	M	1875 1876	M	18 00 17 28		м	1880	L	12 00 25 32
	M	1877	M	17 28			1000	mh	20 76
	M	1878 1879	M	17 28 19 26			j	M L	16 14 10 38
	M	1880	M	21 15	Wisconsin,	M	1888	M	18 92
	М	1888	H mh	80 00 25 00	Familian Countries				1
	1	}	Mml	21 00 17 10	Foreign Countries.	м	1885	M	7 14
	l	1	L	18 50	Germany, Great Britain,	M	1880	H	14 62

	ī	i	ī						
OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Foremen (MA- CHINES AND MA- CHINERY) — Con. Foreign Countries — Con.					Foremen (MET- ALS AND METAL- LIC GOODS) - Con. United States - Con.				
Great Britain,	M	1880	м	811 61	Illinois.	м	1879	M	\$ 16 50
Scotland,	М	1882	L M	7 50 9 00	1202,	M	1880 1886	H	16 50 25 98
Foremen (METAL-					Kansas,	м	1890	M L H	23 08 18 00 24 00
LIC GOODS).	'			li	Massachusetts	м	1845	L M	22 50 13 50
United States.					Massachusette, .	M	1850	H	16 02
Alabama, California,	M	1886	H L M	18 00 12 00 24 00		м	1855	L H	13 50 10 50 18 00
Connecticut,	M	1855 1856	M	13 85 13 85		_	1000	M ml	15 00 18 50
	M	1857 1868	M	18 85 15 00		М	1859	L M	12 00 12 00
	M	18 59 1860	M	15 00 15 00		M	1860 1861	M M	12 00 12 00
	M	1861	M	15 00		M	1862	M	12 00
	M	1862 1863	M	15 00 15 00		M	1863 1864	M	13 50 15 00
:	M	1864	M.	15 00		M	1865	M	15 00
	M	1865 1866	M	15 00 16 15	,	M	1866	H L	22 50 16 50
	M	1867	H L	18 00 16 15		M	1867	H	22 50 18 00
	M	1868	H	18 00 16 15		M	1868	H L	22 50 18 00
	Ж	1869	H	18 00 16 15		M	1869	H	22 50 18 00
	M	1870	H	24 00 18 00		M	1870	H	24 00 22 50
	м	1871	H	16 15 24 00	·	M	1871	H	24 00 22 50
	м	1872	L	17 31 24 00		M	1872 1873	M	24 00 27 00
	M	1873	L H	17 31 24 00		м	1874	L H	24 00 27 00
	м	1874	L H	17 81 28 85		M	1875	L M	24 00 24 00
	_		ռև	24 00		M	1876	M	24 00
			M ml	22 50 18 00	1	M	1877	H	24 00 21 00
	м	1875	L	15 00		M	1878	H	24 00
		1019	H M	28 85 18 00	· ·	м	1879	L M	22 50 22 50
	м	1876	L H	15 00 28 85		M	1880	H M	24 00 22 50
	_	10.0	M	18 00		1	<u> </u>	L	15 00
	м	1877	H	15 00 28 85		M	1883	H	30 00 24 00
	_		M	18 00			İ	ml	22 50
	м	1878	H	15 00 23 08		м	1885	H	21 00 36 00
	ĺ]	M	20 77 18 00		-		mb	80 00
			ml L	15 00			ĺ	M ml	22 50 18 00
	M	1879	H	23 08 20 77		м	1886	L	15 00
		1	mal	18 00	1	M	1891	H	19 20 40 00
	M	1880	H	16 50 23 08		'	İ	mh	34 00 20 00
	_	1.300	M	21 00	1			ml	16 50
	M	1881	L M	18 00 21 00	Michigan,	м	1884	L H	15 00 24 00
Illinois,	M	1875	M	16 50			2002	M	18 00
	M	1876 1877	M	16 50 16 50		м	1889	L M	12 00 16 62
	м	1878	M	16 50					

OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	()rade	Weekly Wages
Foremen (MET- ALS AND METAL- LIC GOODS) - Con.					Foremen (MET- ALS AND METAL- LIC GOODS) - Con.				
United States - Con.			١.		United States - Con.			l	
Michigan,	M	1891	mh M	\$29 00 24 00	Ohio,	M	1882	H	\$38 28 26 74
			ml	16 00		1		ml	21 00
Minnesota,	М	1890	L H M ml	15 00 22 26 19 02 17 94		м	1888	H M ml	15 00 80 00 25 00 28 00
Missouri,	Ж	1882 1886	L M M	15 96 24 00 12 00		м	1884	H mh	20 00 58 27 43 00
	M M M	1890	mh M ml	41 64 80 00 24 96 18 00 16 50		M	1885	M ml L H	24 23 22 00 15 00 55 50 48 00
New Jersey,	M M	1881 1884	L M H M	12 00 27 69 18 00	D		1860	M ml L	83 00 22 50 13 00 15 00
	м	1885	H	15 00 77 00	Pennsylvania,	M	1861	M	15 00
	M	1886	H	22 00 80 00		M	1862 1863	H	15 00 17 10
	_	1000	M	25 00		-	ł	L	18 50
	м	1888	H	20 00 40 00		M	1864	H L	19 50 18 50
	_		mh	80 00		M	1865	H	19 50 18 50
			M	25 00 20 00		м	1866	L H	19 02
New York	M	1886	H	15 00 83 00		м	1867	H	13 50 19 02
New lork,	_	1000	mh	28 68		1	ł	L	15 72
		l	M ml	24 00 16 20	ł	M	1868	H	19 23 16 50
			L	15 00	1	M	1869	H	19 02
	М	1888	mh	52 00 41 52		M	1870	L H	16 50 18 60 13 50
	1	l	M ml	80 00 19 50		M	1871	H	13 50 21 00
		!	L	16 50		1	l	L	13 50
Ohlo,	M	1871 1872	M	16 50 16 50		M	1872	H	24 00 18 00
	M	1873	M	16 50				L	16 50 26 40
	M	1874 1875	M H	16 50 27 69		M	1873	mh	24 00
	_		M L	21 00 15 00	Ì			M ml	21 00 18 00
	м	1876	H	27 69	ł			L	15 00
	м	1877	I.	15 00 25 00	1	M	1874	H	24 00 15 00
		10	mh	20 00		١		L	13 50
			M L	15 00 12 00		M	1875	H	24 00 21 78
	M	1878	H	24 23			1054	L	13 50
	Ì		M L	16 50 12 00		M	1876	H mh	89 42 81 50 24 00
	M	1879	H	24 23 21 45	ŀ	1		M L	24 00 15 00
		1	mh M	19 58	1	м	1877	H	30 00
			ml L	18 00 16 41	1	[1	mh M	24 00 19 50
	M	1880	H	40 00	1	1		L	18 50
•		1	mh M	82 70 24 96]	M	1878	H mb	80 00 24 00
	١.,		L	17 00	1	1		M	19 20
	M	1881	H mb	87 50 83 65	1	M	1879	L H	18 15 42 00
	}		M	27 32				mh	86 00
	l	l	ml L	20 00 16 50	1	1	1	M L	24 00 15 00

Occupations, Biates, and Coun- tries.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Foremen (MET- ALS AND METAL LIC GOODS) - Con.					Foremen (MET- ALS AND METAL- LIC GOODS) - Con. Foreign Countries				
Frited States - Con.	м	1880	н	\$31 50	Con.		1885		410.10
embywama,			mh M L	24 00 19 08 12 72	Ireland, Prussia,	M M M	1886 1877 1880	M M M	\$12 16 7 14 11 14 12 00
	М	1881	M ml	83 00 27 48 19 56 15 96	Foremen (PA-	M	1888	H L	12 72 9 60
	M	1882	H mh M	83 00 27 48 19 56	PER AND PAPER GOODS). United States.				
	м	1883	H mh M	12 86 80 00 25 82 20 70	California, Connecticut,	M M M M	1886 1850 1851	M M M	18 00 9 00 9 00
	м	1886	L H mh	17 52 34 50 80 00		M	1852 1858 1854	M H L	12 00 12 00 24 00 15 00
			M ml	21 00 18 00		M	1855	H	24 00 15 00
	м	1888	L H	15 00 41 10		M	1856	H	24 00 15 00
			mh M	80 00 24 66		M	1857	H	24 00 15 00
			ml L	19 50 16 98	}	M	1858	H	24 00 15 00
Vermont,	M	1886 1886	H	21 00 18 00		M	1859	H	24 00 15 00
West Virginia.	м	1878	L M	13 50 80 00		M	1860	H	24 00 16 00
,	M	1874 1875	M	80 00 80 00		M	1861	H	24 00 15 00
	M	1876 1877	M	80 00 80 00		M	1862	H	24 00 15 00
	M	1878 1879	M M M	80 00 80 00		M	1863	H	24 00 10 02
Wisconsin,	M	1880 1888	H	21 00 25 50		M	1864	H	40 02 12 00
•			M L	21 00 14 40		M	1865	H	40 02 12 00
Foreign Countries. Belgiann,	M	1886	H	7 80		M	1866	Ĥ	40 02 15 00
Ceneda	M	1878	L H	6 00 19 23		М	1867	Ħ	40 02 12 00
, ,			Mml	15 88 13 46		M	1868	H L	49 98 12 00
England,	м	1858	L	11 54 9 60		M	1869	Ħ	49 98 18 50
	M	1861	H	9 60 7 68		M	1870	Ĥ L	49 98 15 72
	M M	1868 1880	M	8 88 14 40		M	1871	H	49 98 15 72
	_	2000	mh M	12 00 10 80		M	1872	H	80 00
			ml	9 60 7 44		М	1878	H	15 72 80 00
	M	1883	H	14 40		М	1874	H	15 72 46 69
France,	M	1885	H	8 82 16 21				M L	80 00 14 16
Germany,	X	1883	M M	10 22 7 14		М	1875	H L	30 00 14 16
Great Britain,	M	1886	H mh	19 98 17 40	}	M	1876	H L	30 00 14 16
	1	Ì	M ml	14 40 11 52		M	1877	H	80 00 15 00
Ireland,	м	1858	L	8 64 12 00		M	1878	H L	24 00 15 00
			M	9 12 7 20		M	1879	H	24 00 15 00

OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Foremen (Pa- PER AND PAPER Goods) — Con.					Foremen (Pa- PER AND PAPER Goods)—Con.				
United States - Con.	1	l			United States - Con.				1
Connecticut,	M	1880	H	824 00	Maine,	м	1878	Ħ	£18 00
•			L	12 00				L	10 50
	M	1887	H	20 10 10 51		M	1879	H L	18 vo
Delaware,	M	1864	M	14 00		M	1880	H	18 00
•	M	1868	H	24 00		l	i	L	12 00
	M	1870	H	14 00 80 00		M	1886	H	24 00 15 00
		10.0	Ĺ	14 00	Massachusetts, .	M	1850	L M	12 00
	M	1875	H	24 00		M	1855	M	12 00
	M	1877	L M	10 20 12 00		M	1861	H	20 00 15 00
	M	1580	Ĥ	24 00		M	1864	M	12 00
•			L	14 00		M	1865	M	15 00
	M	1886	H L	24 00 11 40		M	1866	H mh	36 00 30 00
Georgia,	M	1860	M	12 00				M	21 00
7 /	M	1862	M	15 00				mol	16 50
	M	1863	H	36 00 12 00		м	1867	H	13 50 36 00
	M	1864	Ħ	60 00			1001	mh	30 00
			T.	21 00				M	24 00
	M	1865 1866	M	12 00 15 00		м	1868	H	12 00 36 00
	M	1867	M	15 00		, ME	1900	M	24 00
	M	1868	M	15 00				L	10 50
	M	1869	H	36 00 15 00		М	1869	H mh	36 00 80 00
	M	1870	H	36 00			ł	МП	24 00
			L	15 00			1	L	10 50
	M	1871	ļΉ.	86 00 15 00		M	1870	H	31 50 19 50
	м	1872	H	24 00			İ	M L	12 00
			L	15 00		M	1871	H	31 50
	M	1873	H	21 00			1	mp	30 00 21 00
	м	1874	L M	15 00 15 00			İ	M ml	15 00
	M	1875	H	18 00		l '	}	L	12 00
	M	1070	L	15 00		M	1872	H	81 50
		1876	H	18 00 12 00			i	mh M	24 00 21 00
	M	1877	H	18 00			ł	ml	16 50
	м	1878	L M	12 00 15 00		M	1878	L H	12 00 48 00
	M	1879	M	15 00) ML	1010	mh	48 00 37 50
	M	1880	H	24 00				M	30 00
Illinois,	м	1876	L M	12 00 15 00				ml	18 00 12 00
	M	1876	M	15 00 13 50		м	1874	H	60 00
	M	1878	M	18 50		-		mh	37 50
	M	1879	M	13 50			1	M.	24 00 15 00
Indiana,	M	1880 1874	M	13 50 12 00			}	mi L	15 60 12 60
	M	1875	M	12 00		M	1875	H	60 00
	M	1876	M	12 00				mb	37 50
	M	1877 1878	M M	12 00 12 00				M ml	24 00 18 00
	M	1879	M	12 00				L	15 00
Maine	M	1880 1871	M M	12 00 12 00		M	1876	H	60 00 31 50
maine,	M	1871	M	12 00				mh M	21 00
	M	1873	M	12 00				ml	18 00
	M	1874	M	12 00 18 00	•	أيرا	10**	L H	15 00 60 00
	M	1875	H	12 00		M	1877	mh	31 50
	M	1876	H	18 00				M	21 00
	M	1577	L	12 00		1	1878	L	15 00 60 00
	, ma	1877	H	18 00 10 50		M	1019	H mh	30 00

GRADED WEEKLY WAGES - Continued.

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Foremen (Paper Goods) — Con.					Foremem (Paper Goods)—Con.				
United States - Con.					United States - Con.	i			
Massachusetts, .	M	1878	M	\$21 00 18 00	New Hampshire, .	M	1873 1874	H	\$23 08 23 08
			L	15 00		_	1014	M	19 20
	M	1879	H mh	60 00 80 00		M	1875	H	10 80 19 20
			M	21 00		"	10.0	M	15 00
	1		ml L	18 00 18 50		м	1876	H	10 80 19 20
	M	1880	H	60 00			10.0	M	18 50
	İ	1	mh M	30 00 21 00		M	1877	H	10 80 19 20
		Ì	ml	15 00		_		L	12 00
	M	1883	H	13 50		M	1878	H	19 20 12 00
	1	1	L	40 00 15 00		M	1879	H	19 20
	M	1885	H	29 31 24 00		М	1880	H	12 00 19 20
	F		L	18 00 9 00		1,	1000	L	12 00 18 00
	-	ł	H L	7 20		М	1886	H	13 50
	M	1886	H	27 00 18 00	New Jersey,	M	1861 1862	M	12 00 12 00
	1		L	18 50		M	1863	M	12 00
	M	1891	H	85 00 80 00		M	1864 1865	M	12 00 24 00
	1		mh M	23 00		M	1866	IM€	27 00
	F		L	16 50 12 00	İ	M	1867 1868	М	30 00
	_		L	9 00		M	1869	M	80 00
Michigan,	M	1867	H	24 00 12 00		M	1870	H	86 00 15 00
	M	1868	H	24 00		M	1871	H	86 00
	м	1869	H	12 00 24 00		и	1872	H	15 00 36 00
	1		L	12 00		1	!	L	15 00
	M	1870	H	24 00 12 00		M	1873	H	36 00 15 00
	M	1871	H	24 00 12 00		М	1874	н	86 00
	M	1872	H	24 00		M	1875	H	36 00
	M	1873	H	12 00 24 00		M	1876	H	15 00 36 00
	i		L	12 00		-	!	L	15 00
	M	1874	H	86 00 12 00		M	1877	H	36 00 15 00
	М	1875	H	36 00		M	1878	H	86 00
	M	1876	H	12 00 36 00	ĺ	м	1879	H	15 00 86 00
		1	L	12 00		1		L	15 00
	M	1877	H	36 00 11 00		M	1880	H	86 00 15 00
	M	1878	H	36 00	New York,	M	1850	H	18 00
	M	1879	H	11 00 38 34		M	1851	L H	12 75 18 00
	м	1880	L	11 00		М	1852	L H	12 75
	i	1	H	88 84 11 00		1		L	18 00 12 75
	M	1884	H	38 40 24 00		M	1853	H	18 00 12 00
	i		L	18 00	1	M	1854	H	18 00
New Hampshire, .	M	1864 1865	M	12 00 12 00		м	1855	L H	12 00 30 00
	M	1888	M	12 00				L	12 00
	M	1867 1868	M	12 00 15 00		M	1856	H	80 00 12 75
	M	1869	M	15 00		M	1857	H	80 00
	M	1870 1871	M	15 00 23 08	ļ	м	1858	H	12 75 30 00
	I W	1872	M	23 08	l.	1 -	;	Ĺ	12 00

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	8ex	Years	Grade	Week Wage
Foremen (Pa- PER AND PAPER GOODS) — Con.					Foremen (Paper Goods) — Con.				
United States - Con.	}	ĺ	1		United States - Con.	1	l		ĺ
New York,	M	1859	H	\$30 00 12 00	New York,	M	1879	H	\$15 0 48 0
	м	1860	H	80 00		M	1880	mh	36 9
		ł	L	10 50		1		M.	80 0
	M	1861	H	80 00 10 50		, '	l	mi L	23 0 15 0
	M	1862	H	80 00		M	1888	H	25 0
	м	1863	H	10 50		1		M ml	18 0 15 0
			L	80 00 12 00		1		L	12 0
	M	1864	H	80 00 12 00	Ohio,	M	1878	H	27 0 24 0
	M	1865	Ħ	80 00		1		L	10 5
		{	M	23 04		M	1874	H	27 0 24 0
	м	1866	L H	12 00 80 00		1 .		M	10 5
	_		M	28 04		M	1875	H	27 0
	м	1867	L	12 00 80 00				M L	24 0 10 5
	_		M	23 04		M	1876	H	34 6
	м	1868	L H	12 00 80 00		1		mh M	27 0 24 0
		1000	M	23 04		1		L	10 5
	м	1869	L	12 00 80 00		M	1877	H mh	34 6 27 0
	, ML	1909	H mh	27 00				M	24 0
	j		M	23 04				L	10 5
	м	1870	L H	12 00 48 00		M	1878	H	34 6 24 0
	_		mh	82 00		1		L	11 2
			M ml	24 00 17 28		M	1879	H mh	34 6 28 0
		İ	L	12 00	1		l	M	21 0
	M	1871	H	48 00 24 00	ļ	1	ĺ	ml L	15 0 13 5
		ļ	L	12 00		M	1880	Ħ	40 0
	M	1872	H	48 00		1		mp	81 5
	1		M	30 00 18 46		1	1	M ml	25 0 18 0
	١.,		L	15 00		1		L	10 5
	M	1873	H	48 00 80 00		M	1881	H mh	30 0 28 5
	1	İ	mi	18 46			1	M	24 1
	м	1874	H	15 00 48 00		1		mi L	19 9 18 0
	-	10.1	M	80 00		М	1882	M	198
]		ml L	18 46 15 00		M	1883	H M	23 0 19 2
	М	1875	Ħ	48 00		İ	1	L	15 0
			M ml	80 00 23 04	ļ	М	1884	H mh	40 0 28 8
			L	15 00		1	}	M	25 0
	М	1876	H	48 00			ĺ	ml	19 2
			M ml	30 00 23 04		м	1886	H	12 0 48 1
	١.,		L	15 00				mh	38 5
	M	1877	H	48 00 80 00		1		M mì	28 8 19 2
	ĺ	1	ml	23 04				L	15 0
	м	1878	H	15 00 48 00	Pennsylvania,	M	1864 1865	M	12 0 12 0
	_	10.3	mh	80 00	1	F	1866	H	240
			M	24 00 20 76	i		}	mh	20 0 12 0
			ml L	15 00		1	1	M L	105
	M	1879	H	48 00 80 00		M	1867	H	81 2
			mb M	24 00		1		mh M	24 0 20 0
			ml	20 76	ļ	1	l	ml	12 0

	_	1	1			T-			
OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weeki Wage
Foremen (Paper Goods) — Con.					Foremen (Paper Goods) — Con.				
United States - Con.	ł				United States - Con.				
Pennsylvania,	M	1867	L.	\$10 50	Wisconsin,	M	1879	M	\$30 00
	M .	1868	mh M	24 00 20 00 12 86		M	1880 1888	M	23 82
	м	1869	L H mh	10 50 24 00 20 00	Foreign Countries. England,	M	1868	H L	7 20 4 80
	м	1870	L H	12 00 10 50 24 00	Germany,	М	1878	H	14 28 9 04
	м	1871	M L H	12 00 10 50 25 00		M	1882 1885	M M	8 48 15 47 10 71
			M L	12 00 10 50		M	1890	H M	9 19 17 14 14 28
	M	1872	H M L	25 00 12 00 10 50	Foremen (PRINT-			ī	10 81
	M	1878	H M ml	80 00 24 00 12 00	ING, PUBLISHING, AND BOOKBIND- ING).				
	м	1874	L	10 50 80 00	United States.				
		1014	mh M	24 00 22 20	California, Connecticut,	F M	1888 1887	M M	12 0 22 4
	M	1875	L H mh	12 00 80 00 24 00	Massachusetts, .	M	1883	mb M	85 0 80 0 25 0
	м	1876	M L H	22 20 12 00 80 00		F		H	20 0 12 0 10 0
		1876	mh M	24 00 18 00		M	1885	H H	60 0 45 0
	M	1877	L H M	11 70 80 00 19 98				M ml L	20 00 15 00
	м	1878	L H mh	11 70 86 00 80 00		F		H M L	25 0 10 5 6 0
	M	1879	LH	19 98 11 70 86 00		M	1891	H mh M	35 0 30 0 24 0
		ŀ	mh M L	80 00 24 00 15 00	Michigan,	м	1884	ml L H	18 00 18 50 22 80
	M	1880	H	42 00 80 00	manuages,	_	1002	mh M	18 00 15 00
Vermant,	м	1886	L M	18 00 18 00 18 00	Minnesota,	M.	1890	L H L	12 00 28 8 20 2
Wisconsin,	M M M	1860 1861	M	80 00 80 00 80 00	Missouri,	M	1879	H	28 0 18 0 27 0
	M	1862 1863 1864	M M M	80 00 80 00		M	1887	M H L	80 0 24 0
	M	1865 1866	M	80 00 80 00	New Jersey,	M	1882	H	18 0 15 0
	M	1867 1868	M	80 00 80 00		M	1883 1884	M	15 0 14 0
	M	1869 1870	M	80 00 80 00		M	1886	H T.	20 0 17 0
	X	1871	M	20 00	New York,	M	1888	Ĥ	40 0
	M	1872 1878	M	30 00 30 00		1	•	mh M	80 0 24 0
•	M	1874 1875	M	30 00 30 00	!	F		L	15 0 18 0
	M	1876	M	80 00	Ohio,	M	1877	H	80 0
	M	1877 1878	M	80 00 80 00		м	1878	L	20 0
	1		1	1	}	1	1	1	

Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Foremen (PRINT- ING, PUBLISHING, AND BOOKBIND- ING) — Con. United States - Con.					Foremen (RAIL- ROAD CONSTRUC- TION AND EQUIP- MENT) — Con.				
Ohio,	M	1878	mh	\$23 00	United States - Con. Massachusetts.	M	1885	M	\$ 19 50
•		l	M L	15 80 11 62		Ì		ml L	18 00 16 50
	М	1879	M	22 00		M	1891	H	23 00
	M	1880	H mb	50 00 40 00		ŀ		mh M	20 00 17 80
			M	35 00 23 25		ł		ml	15 00 12 00
	M	1881	L M	24 24	Minnesota,	M	1890	L M	16 86
	M	1882	H M	27 84 18 66	Missouri. New Jersey,	M	1879 1884	M M	12 00 16 15
	۱.,		L	11 69	New York,	M	1888	M	24 00
	М	1883	H M	40 00 30 57	Ohio,	M M	1873 1879	M M	28 85 32 46
	м	1884	k	21 15 50 00		M	1881 1882	M	24 00 19 02
		1001	mh	40 00		M	1883	H	36 00
	1		M ml	30 00 25 00		l		mh M	30 00 23 00
	м	1886	L H	20 00 45 00		ļ		ml L	20 00 15 60
		1000	mh	40 00	Pennsylvania,	M	1864	M	28 85
			M ml	30 00 24 00		M	1865 1866	M	29 85 28 85
Pennsylvania,	м	1873	L H	15 00 27 00		M	1867 1868	M M	28 85 28 85
rennsylvania,	31	1010	M	18 00		M	1869	M	28 85
Wisconsin,	M	1888	H	15 00 28 52		M	1870 1871	M	28 85 28 85
•	_	1000	Ĺ	17 94		M	1872	M	28 85
Foreign Countries.						M	1874 1875	M	28 85 28 85
Austria England,	M	1885 1863	M. M.	8 00 10 08		M	1876 1877	M M	28 85 28 85
France,	M	1885	H	11 58		M	1878	M	28 85 28 85
Germany,	M	1885	L H	5 40 12 30		M	1879 1880	M M	28 85
Great Britain,	М	1883	L M	8 50 9 25	Tennessee,	M	1886	H	19 50 15 00
Ireland,	M	1855	M	7 20 7 92	Vermont,	M	1886	H	14 88
	M	1856 1857	M H	9 36	Foreign Countries.	1		L	12 96
			M L	8 40 7 7 20	England,	M	1885	м	11 00
	M	1858	Ħ	9 60	Germany,	M	1885	M	7 00 7 20
			M L	8 40 7 44	Italy,	M	1884	M	7 20
	M	1860	M L	9 36 7 20	Foremen (Wood- EN Goods).				
Switzerland,	M	1884	H	8 68	United States.				
			L	6 27 4 05	California,	м	1886	H	24 00
Foremen (RAIL-					-			M L	18 00 18 50
ROAD CONSTRUC-					Illinois,	M	1871	M M	18 46 18 46
MENT).						M	1872 1873	M	18 46
United States.				İ		M	1874 1875	M	18 46 18 46
Delaware,	M	1873	M	20 00		M	1876	M	18 46
	M	1874 1875	M M	20 00 18 00		M	1877 1878	M	18 46 18 46
	M M	1876 1877	M M	18 00 18 00		M	1879 1880	M	13 85 13 85
	M	1878	M	17 00	Indiana,	M	1874	M	12 00
	M M	1879 1880	M M	17 00 18 00		M	1875 1876	M.	12 00 12 00
Lassachusetts	M.	1885	H mh	24 00		M	1877	M	12 00

Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Foremen (Wood En Goods) — Con. United States - Con.					Foremen (Wood- EN Goods) — Con. United States - Con.				
Indiana,	M	1879	M	\$12 00	Ohio,	M	1882	L	\$14 64
Kentucky,	M	1880 1865	M H M	12 00 24 00 21 00		M	1884	mh M	25 00 21 00 16 00
	м	1866	L H M	18 00 24 00 21 00		м	1886	ml L H	14 00 12 50 80 00
	M	1867	L H	18 00 24 00 18 00			1000	mh M	24 00 18 00
	M	1868	H	24 00			1	ml L	15 00 12 00
	M	1869	L H L	18 00 24 00 18 00	Pennsylvania,	M M	1875 1877 1888	M M H	16 50 15 00 19 02
	M	1870	H	24 00 18 00	Forgers (MET-	_	2000	Î	13 86
	M	1871	Ħ	24 00 18 00	ALS).				
	M	1872	H	24 00	United States.				
	M	1873	H	24 00	California, Connecticut,	M	1886 1850	M	18 00 12 00
	M	1874	H	18 00 24 00		M	1851 1852	M	12 00 12 00
			M L	18 00 15 00		M	1853 1854	M	12 00 12 00
	M	1975	H M	24 00 18 00		M	1855 1856	M	12 00 15 00
	M	1876	L H	15 00 24 00		M	1857	Ë	12 00 15 00
			M L	18 00 15 00			1858	L	12 00
	M	1877	H	24 00 15 00		M		H	15 00 12 00
	М	1878	H	24 00		M	1859	H	15 00 12 00
	M	1879	H	15 00 24 00		M	1860	H L	13 50 12 00
	М	1880	H	15 00 24 00		M	1861	H	13 50 12 00
Massachusetts, .	м	1885	H	15 00 20 00	}	M	1862 1863	M	15 00 16 50
			M	18 00 13 50		M	1864 1865	M	18 00 18 00
	M	1891	L	12 00 80 00		M	1866 1867	M	19 50 19 50
			mh	24 00 20 00	·	M	1868	M	19 50
			ml	16 50 12 00		M	1869 1870	H	19 50 19 50
Michigan,	M	1884	H	24 00		M	1871	H	16 50 19 50
Missand		1000	L	19 50 15 00		M	1872	H	16 50 19 50
Missouri,	M	1890	mh	17 40 16 20	ļ	м	1878	H	16 50 19 50
			M L	14 70 11 82		м	1874	H	16 50 18 00
New Jorsey, New York,	M	1885 1888	M H	30 00 28 80				M ml	16 80 15 00
			M ml	18 00 15 00		м	1875	L	13 99
Ohio,	M	1879	L H	12 00 20 00		M	l	H	18 00 16 50
,		20.0	M	18 00			1876	H L	18 00 16 50
	M	1880	H	14 17 21 00	4	M	1877	H	18 00 16 50
			M L	18 00 14 48		M	1878	H	18 00 16 50
	M	1881	H	18 00	i l	M	1879	H	18 00
	M	1882	H	13 50 18 00				L	15 60

OCCUPATIONS, SEX Years Oracle Weekly Wages Trains, and Courstants,										
ALS Connecticut ALS Connecticut ALS Connecticut ALS Connecticut ALS ALS Connecticut ALS ALS Connecticut ALS	STATES, AND COUN-	Sex	Years	Grade	Weekly Wages	STATES, AND COUN-	Sex	Years	Grade	
United States - Con. Connecticut, . M 1881 H 7 50 Massachusetts, . M 1887 H 21 00 M 1885 H 2 000 M 1886 H 2 000 M 1886 H 2 000 M 1887 H 2 000 M 1888 H 2 000 M 1889 H 2 000 M 1889 H 2 000 M 1889 H 2 000 M 1880 H										
Connecticnt, . M 1881 H 21 00 Massachusetts, . M 1877 H 1810 M 1860 H 24 00 L 1860 H 24 00 M 1860 H 24 00 M 1865 H 26 00 M 1866 H 24 00 M 1860 H 24 00 M 1866 H 24 00 M 186	· ·	l				1		1		
Massachusetts, M 1857 H 24 00 H 1851 H 24 00 M 1852 H 26 00 M 1855 H 24 00 M 1855 H 24 00 M 1855 H 24 00 M 1855 H 24 00 M 1855 H 24 00 M 1855 H 20 00 M 1855 H 20 00 M 1855 H 20 00 M 1855 H 20 00 M 1855 H 20 00 M 1855 H 20 00 M 1855 H 20 00 M 1855 H 20 00 M 1855 H 20 00 M 1855 H 20 00 M 1855 H 20 00 M 1855 H 20 00 M 1855 H 20 00 M 1855 H 10 10 00 M 1855 H 10 10 00 M 1855 H 10 10 00 M 1855 H 10 10 00 M 1855 H 10 10 00 M 1855 H 10 10 00 M 1855 H 10 10 00 M 1855 H 10 10 00 M 1856 H 10 10 00 M 1857 H 22 50 M 1858 H 10 00 M 1858 H		M	1001		#15 M		M	1977	т.	619 00
Massachusetts, M 1850 H 24 00	Connecticus,		1	L	7 50	massacutostis, .			Ħ	21 00
M 1862 H 24 00 M 1885 H 12 00 M 1885 H 12 00 M 1885 H 12 00 M 1885 H 12 00 M 1885 H 12 00 M 1885 H 12 00 M 1885 H 12 00 M 1885 H 18 00 M 1885 M 18 00 M 1885 M 18 00	Massachnsetts.		1887	H	18 22 24 00				L L	18 50
M 1862 H 24 00 M 1885 H 12 00 M 1885 H 12 00 M 1885 H 12 00 M 1885 H 12 00 M 1885 H 12 00 M 1885 H 12 00 M 1885 H 12 00 M 1885 H 18 00 M 1885 M 18 00 M 1885 M 18 00			1	L	9 00		M	1879	H	21 00
M 1885 H 24 00 M 1885 H 12 00 M 1885 H 12 00 M 1885 H 19 50 M 1885 H 24 00 M 1885 H 24 00 M 1885 H 24 00 M 1885 H 24 00 M 1885 H 24 00 M 1885 H 24 00 M 1885 H 24 00 M 1885 H 25 00 M 1885 H 25 00 M 1885 M 12 00 M 1885 H 18 00 M 1886 H 18 00 M 1886 H 18 00 M 1886 H 18 00 M 1886 H 18 00 M 1886 M 12 00 M 1886 H 18 00 M 1886 H 18 00 M 1886 H 18 00 M 1886 H 18 00 M 1886 H 18 00 M 1886 M 18 00 M 1886 M 18 00 M 1886 M 18 00 M 1886 M 18 00 M 1886 M 18 00 M 1886 M 18 00 M 1886 M 18 00 M 1886 M 18 00 M 1886 M 18 00 M 1886 M 18 00 M 1886 M 18 00 M 1886 M 18 00 M 1886 M 18 00 M 1886 M 18 00 M 1886 M 18 00 M 1886 M 18 00				L	9 00				L	12 00
M 1864 H 24 00 M 1885 H 19 50 M 1865 H 24 00 M 1866 H 24 00 M 1866 H 24 00 M 1867 M 1867 M 1868 M 22 60 M 1867 M 1867 M 1868 M 22 60 M 1867 M 1868 M 12 00 M 1867 M 1868 M 12 00 M 1867 M 1860 M 1867 M 1860 M 1867 M 1860 M 1867 M 1860 M 1867 M 1860 M 1867 M 1860 M 1867 M 1860 M 1867 M 1860 M 1867 M 1860 M 1860 M 1860 M 1860 M 1865 M 17 31 M 1860 M 1867 M 1860 M 1867 M 1860		M	1852	H	24 00		M	1880		
M		M	1853		24 00			1000	L	12 00
M		м	1854		24 00		M.	1000	M	15 00
M 1855 H 24 00 M 1855 H 25 00 M 1855 H 18 00 L 9 60 M 1865 H 25 00 M 1865 H 25 00 M 1865 H 25 00 M 1865 H 25 00 M 1865 H 25 00 M 1865 H 25 00 M 1865 H 25 00 M 1865 H 25 00 M 1865 H 25 00 M 1865 M 25 00 M 25 00		\ v	1988	L	9 00					12 00
M				L	9 00		M	1885	H	80 00
M		M	1856		9 00		1	l		16 50
M 1858 H 18 00 M 1891 H 25 00 M 1806 H 18 00 M 1806 H 18 00 M 1806 H 18 00 M 1806 H 18 00 M 1806 H 12 00 M 1806 H 12 00 M 1806 H 12 00 M 1806 H 12 00 M 1806 H 12 00 M 1806 M 18		M	1857	H	18 00		1	l	ml	10 00
M 1859		M	1858		18 00				M	12 00
M 1860 H 18 00 H 1861 H 18 00 M 1862 H 18 00 M 1862 H 18 00 M 1863 H 21 00 M 1864 H 21 00 M 1865 H 21 00 M 1866 H 22 00 M 1866 H 22 00 M 1866 H 22 00 M 1866 H 22 00 M 1867 H 22 00 M 1869 M 1869 M 23 08 M 1869 M 23 08 M 1869 M 23 08 M 1869 M 1860 M 23 08 M 1869 M 1860 M 23 08 M 1860 M 1877 M 21 00 M 1870 M 1870 M 12 00 M 1870 M 1870 M 12 00 M 1870 M 1870 M 12 00 M 1870 M 1870 M 12 00 M 1870 M 1870 M 12 00 M 1870 M 1870 M 12 00 M 1870 M 1870 M 12 00 M 1870 M 1870 M 12 00 M 1870 M 1870 M 12 00 M 1870 M 1870 M 12 00 M 1870 M 1870 M 12 00 M 1870 M 1870 M 12 00 M 1870 M 1870 M 12 00 M 1870 M 1870 M 12 00 M 1870 M 1870 M 12 00 M 1870 M 1870 M 12 00 M 1870 M 1870 M 12 00 M 1870		M	1859				M	1891		19 00
M 1861 H 18 00 M 1862 H 18 00 M 1863 H 21 00 M 1864 H 21 00 M 1865 H 21 00 M 1866 H 22 50 M 1867 H 22 50 M 1867 H 24 00 M 1870 H 24 00 M 1871 H 22 50 M 1871 H 22 50 M 1875 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1878 H 24 00 M 1877 H 22 50 M 1877 H 22 50 M 1878 H 24 00 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1877 H 22 50 M 1878 H 22 50 M 1888 H 18 80 M 1888 H 18 80 M 18 50 M 1888 H 18 80 M 18 50 M 1888 H 18 80 M 18 50 M 1888 H 18 80 M 18 50 M 1888 H 18 80 M 18 50 M 1888 H 18 80 M 18 50 M 1888 H 18 80 M 18 50 M 1				L	7 50			l	M	16 50
M		1		L	7 50			l	L	9 00
M		M	1861			Michigan,				18 00 15 00
M 1868 H 21 00 M 1885 M 23 08 M 23 08 M 1885 M 23 08 M 1885 M 23 08 M 1885 M 23 08 M 23		M	1862	H	18 00	W We work has	ļ		I.	12 00
M		M	1868	H	21 00	New Hampshire, .	M	1855	M	28 08
M 1866		M	1884				M	1856	M	23 08 23 08
M 1866				L	12 00		M	1858	М	23 08
M 1865		M	1800		18 50		M	1860	<u> </u>	23 08
M 1868 H 24 00 M 1866 M 17 31 1865 M 17 31 1865 M 17 31 1867 M 1868 M 17 31 1867 M 1868 M 17 31 1867 M 1868 M 17 31 1867 M 1868 M 17 31 1867 M 1868 M 17 31 1867 M 1869 M 17 31 1869 M 1870 M		M	1866		22 50		M		Ä	
M 1868 H 24 00 M 1866 M 17 31 1868 M 17 31 1869 M 1869 M 17 31 1869 M 17 31 1869 M 17 31 1869 M 17 31 1869 M 17 31 1869 M 17 31 1869 M 17 31 1869 M 17 31 1869 M 17 31 1869 M 1870 M 1870 M 1870 M 1870 M 1870 M 1871 M 15 00 M 1872 M 18 00 M 1873 M 18 00 M 1873 M 18 00 M 1877 M 18 00 M 1878 M 21 00 M 1878 M 21 00 M 1870 M		м	1867	H	22 50		M	1863	M	28 06
M 1869		м	1868		18 50 24 00		l Mr	1865	M	
M 1870		\ v	1980		18 50		M	1866	M	
M			1000	M	18 00		M	1868	M	17 81
M		1			15 00 18 50		M	1869	ML	
M		M	1870		24 00		M	1871	M	15 00
M		1	ļ	ml	15 00		M	1878	M	18 00
M		м	1871		18 50 24 00		M			
M		-		M	18 00		М	1777	M	21 00
M 1873 H 24 00 mh 22 60 M 1874 H 22 50 M 15 00 M 1		1		L	13 50		M	1879	M	21 00
M 1873 L 18 50 M 1885 H 16 00 M 15 00 M 1875 H 22 50 M 15 00 M 1885 H 18 00 M 18 0		M	1872	H	24 00 18 00	New Jersev.	M			12 00
M		1.	2000	L	18 50				H	16 00
M 1874 H 22 50 M 1885 H 18 50 M 1885 H 18 00 M 15 00 M 15 00 M 15 00 M 15 00 M 15 00 M 15 00 M 15 00 M 15 00 M 15 00 M 15 00 M 15 00 M 15 00 M 15 00 M 15 00 M 15 00 M 15 00 M 15 00 M 15 00 M 18 50 H 24 00 M 1877 H 21 00 M 1866 H 24 00 M 1878 H 24 00 M 24 00 M 25 00) ^{AL}	1013	mh	22 50			1	M	12 00
M 1874 H 22 50 M 1885 M 12 00 L 18 50 M 15 00 M 15 00 L 13 50 M 15 00 M 15 00 L 13 50 M 1885 M 12 00 M 1876 H 22 50 New York, M 1885 H 24 00 M 1877 H 21 00 M 1856 H 24 00 M 1877 H 21 00 M 1856 H 24 00 M 1878 H 21 00 M 1856 H 24 00 M 1877 H 21 00 M 1856 H 24 00 M 1878 H 21 00 M 1856 H 24 00 M 1878 H 21 00 M 1856 H 24 00 M 1878 M 12 00 M 1856 H 24 00 M 1878 M 12 00 M 1856 H 24 00 M 1878 M 1870 M 1850 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M 1870 M M 1870 M 1870 M 1870 M M 1870 M 1870 M 1870 M M 1870 M 1870 M 1870 M M 1870 M 1870 M 1870 M M 1870 M 1870 M 1870 M M 1870 M 1870 M 1870 M M 1870 M 1870 M M 1870 M 1870 M 1870 M M 1870 M M		1			15 00 18 50					10 00 9 00
M 1875 H 22 50 M 15 00 L 13 50 M 1876 H 22 50 M 1876 H 22 50 M 1877 H 21 00 M 1885 H 24 00		М	1874	H	22 50		M		M	12 00
M 15 00 ml 18 50 m		1		L	18 50		-	1998	mb	16 50
M 1876 H 22 50 New York, M 1855 H 24 00 M 1877 H 21 00 M 1856 H 24 00		M	1875	H	22 50			1	M	15 00
M 1877 H 21 00 M 1858 H 24 00				L	13 50				L	9 96
M 1877 H 21 00 M 1856 H 24 00				L	12 00	New York,		1	L	18 00
		M	1877	H	21 00		M	1856	H	24 00
		<u> </u>	<u> </u>		1 20 00		<u> </u>	<u> </u>	<u> </u>	

Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	8ex	Years	Grade	Weekly Wages
Forgers (Met-					Forgers (MET-			1	
United States - Con.			'		United States - Con.				
New York,	M	1857	H T.	\$24 00 18 00	New York,	M	1888	M	\$21 00
	M	1858	Ħ	24 00				ml L	14 00 7 50 21 00
	M	1859	L H	18 00 24 00	Ohio,	M	1875 1876	M	21 00 21 00
	M	1860	L H	24 00 18 00 24 00		M	1877 1878	M	18 00 18 00
	1		L	18 00		M	1879	M	18 00
	M	1861	H	24 00 18 00		M	1880 1887	M H	22 50 22 50 18 00
	M	1862	H L	24 00 18 00				mh M	18 00 15 00
	M	1863	H	24 00 18 00	Pennaninania	м	1857	L	9 96
	M	1864	H	24 00	Pennsylvania,	M	1863	M. M.	12 60 16 50
	M	1865	L	18 00 24 00		M	1871 1872	M M	14 28 15 00
	M	1866	L H	18 00 24 00		M	1878 1874	M	15 00 18 00
	1		L	18 00			:	Î.	18 50
	M	1867	H L	24 00 18 00		M	1875 1876	H	12 00 24 00
	M	1868	H L	24 00 18 00		ł		mh M	18 00 15 00
	M	1869	H	24 00 18 00		1		ml L	15 00 12 00 10 50
	M	1870	H	24 00		M	1877	M	12 00
	M	1871	H	18 00 24 00	i	M	1878	H	15 00 12 00
			M	18 00 15 00		M	1879	H	12 00 15 56 12 00
		; !	L	12 56				L	10 80
	M	1872	H mh	24 00 20 76		M	1880	H	13 50 9 90
			M ml	18 00 15 00		M	1881 1882	M	18 86 18 24
	1		L	12 93		_	1002	M	16 50
	M	1873	H M	24 00 18 00		M	1883	L M	6 50 15 54
	1	!	m! L	15 00 11 98		M	1884 1886	M M	8 25 16 20
	M	1874	H	24 00 18 00		M	1888	M	18 50
		· I	M	15 00	Foreign Countries.				
	M	1875	L H	6 66 24 00	Austria,	M	1885 1885	M	8 05 6 60
			M ml	18 00 15 00	Bohemia,	M	1885 1839	M	5 82 9 60
			L	11 12	mugianu,	M	1840	H	21 60
	M	1876	H mb	24 00 18 00		ļ		M ml	18 92 6 96
		i	M ml	15 00 18 59		M	1849	L	4 82 9 60
	M	1099	L	6 63		M	1850	H	12 96
	M	1877	H mh	24 00 18 00				mh M	10 08 8 40
			M L	15 00 9 84		1		ml L	6 48 4 82
	M	1878	H mh	24 00 18 00		M	1857	H mh	11 52
		i I	M	15 00		İ		M	7 92
	M	1879	H	9 26 18 00				ml L	6 48 4 68
			M L	15 00 8 78		M	1859	H	9 60 8 22
	M	1880	H	18 00		M	1860	H	12 96
	1		M L	15 00 11 76				mh M	10 08 8 40 6 24
	M	1888	H mh	36 00 30 00				ml L	6 24 4 82
		!				1	1	ı —	- 02

	Sex	Years	Grade	Weekly Wages	STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Forgers (Met- ALS) — Con. Foreign Countries					Founders (MET-ALS) — Con.				
-Con.			}		United States - Con.				
England,	M	1866	mh M	\$14 88 12 00 8 64	Connecticut,	M	1876 1877 1878	M M M	\$21 00 21 00 21 00
			ml L	5 76 1 68	Georgia,	M	1887 1850	M	12 07 10 50
	M	1868	H	14 88 12 00	Georgia,	M	1851 1852	M	10 50 10 50
		}	M	8 64		M	1858	M M	10 50
			ml L	4 80 2 40		M	1854 1855	M M	10 50 10 50
	M	1869 1871	M	8 85 9 12		M	1856 1857	M	10 50 10 50
1	_		mh M	8 40 7 20		l Mr	1858 1859	M	10 50 10 50
		1	ml	6 00		M	1876	M	10 00
	М	1878	L M	4 80 8 40		M	1877 1878	M	15 00 15 00
	M M	1874 1877	M	10 08 11 52		M	1879 1880	M	15 00 15 00
	M	1878	H	18 24 12 00	Illinois,	M	1878	H	16 50 8 00
	1		ml	8 52		M	1879	H	25 00 8 00
	М	1879	H	18 24		M	1882	H	18 00
	1		M ml	12 15 8 52				mh M	16 50 15 00
	м	1880	L H	5 82 14 40		M	1883	L H	13 50 18 00
	м	1883	L	14 40 5 28 28 80		-	1000	mh M	16 50 15 00
	AM.	1000	H	18 00				L	13 50
			ml L	12 00 6 00		M	1884	mh	18 00 16 50
Great Britain,	M	1880	H mb	16 94 14 52		}		M ml	15 00 13 50
			M	9 55 5 32		M	1885	L	12 00 18 00
	M	1883	H	29 20		_	1000	mb	16 50
		ł	mh M	24 83 19 46				M L	15 00 12 00
			ml L	.9 73 1 95		M	1886	H mh	18 00 16 50
Italy,	М	1878	H	7 20				M ml	15 00 18 50
	M	1884	H	7 20		l		L	12 00
			M L	5 04 2 88	Iowa,	M	1888 1885	M M	16 75 13 50
Scotland,	M	1860 1877	M	8 64 7 76	Kentucky,	M	1870 1871	H	17 28 38 28
	M	1880	H M	16 80 9 48		M	1872	L H	17 28 88 46
			L	4 32			ł	L	18 48
	М	1883	H M	19 20 11 64		M	1873	H	38 46 18 46
Founders (MET.			L	9 36		M	1874	H	23 10 20 76
ALS).						M	1875	H	23 10 20 76
United States.	3.5	1000		20.00		1	1070	L	10 00 23 10
California,	M	1888 1888	M	18 00 7 50		M	1876	H	20 76
Connecticut,	M	1863 1864	M	10 80 12 00		M	1877	H	23 10 20 76
	M	1865 1866	M M	21 00 80 00		M	1878	L	10 00
	M	1867	M	80 00				M	23 10
	M	1868 1869	M	30 00 21 00		м	1879	H	10 00 38 46
	М	1875	H	42 00 18 00				M L	20 76 15 00

·	GR	IDEL	, 14 E	EKLI	WAGES — Conti	luet	١.		
OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Founders (MET-	Ì				Founders (MET-				
ALS) — Con. United States - Con.					ALS) — Con. United States - Con.				
Kentucky,	м	1880	н	\$48 12	New York,	Ж	1834	M	\$10 76
Maine,	M	1886	L	20 76 12 00		M	1835 1836	M	11 10
Maryland,	M	1857 1872	M M M	88 80 41 64		M	1837 1838	M	11 84 9 66
•	M	1878	M	41 64		M	1839	M	10 00 10 50
	M	1876 1878	M	41 64 12 00 24 00		MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	1840 1841	M M M	9 66 9 66
Massachusetts	M	1885 1885	M	24 00 9 00		M	1841 1850 1851	M M	9 66 8 81 8 31
	-	2000	M	7 50 6 00		Ñ	1852	M	9 24
	M	1837	H	10 50 9 00		M	1858 1854	M	9 24 9 24 9 24 9 24
	м	1838	L H	10 50		M	1855 1856	M M	9 24 9 24
	м	1840	L M	9 00		M	1857	H	9 24 12 00 9 24
	M	1845	H	9 00 7 50		M	1858	H	12 00
	м	1860	L	6 00		M	1859	L M	10 38
			H L	7 50		M M M	1860 1861	M	9 00 8 00 12 86
	М	1883	H	18 00 16 50		M	1862	H	12 86 8 50
	м	1885	L M	15 00 15 00		M	1863	н	12 36 10 60
	M	1891	H	15 80 6 90	ļ	M	1864	M T	12 80
Michigan,	M	1872	L M	80 00		M	1865 1866	M M	12 80 13 00
	M M M	1873 1874	M	80 00 80 00		M	1867 1868	H	14 00 16 00
	M	1875 1876	M	21 00 21 00		м	1869	L H	16 00 14 00 19 08
	M	1877 1878	M	21 00 21 00		м		L	15 00
	M	1879	M	30 00			1870	H L	20 00 15 00
	M	1880 1883	M	80 00 16 50		M	1871	H	20 00 15 00
	М	1884	H	24 00 21 00		M	1872	H L	28 70 15 00
	Ì		ml L	16 50 8 08		М	1873	H	24 55
Missouri,	М	1863	M	18 00		M	1874	H	20 00
	M M M	1864 1871	M M	18 00 20 00		м	1875	H	15 00 20 00
	M	1872 1880	M	20 00 20 00		М	1876	L M	15 00 18 40
	M	1884	H	15 00 7 50		M	1877	H	18 40 12 00
New Jersey,	M	1879 1880	M	12 60		M	1878	H	14 00
	м	1000	mh	18 50				M L	12 00 10 00 14 00
		i	M ml	12 00 9 90		М	1879	H	12 90
	M	1882	L H	6 40 19 50		м	1880	L H	10 00 20 00
	-		mh M	15 00 13 50		M	1883	L	17 50
			ml	10 80				L	13 50
	M	1884	H	6 40 15 00		M	1884	H	16 50 13 50
	M	1885	L M	12 00 8 22		м	1885	L H	10 00 16 50
	M	1888	H mh	13 50 12 00		м	1886	L H	15 00 18 00
	ļ		M	10 98			1000	M	16 50
			ml L	9 00 6 00		M	1887	H	10 00 18 00
New York,	M	1832 1833	M	11 46 11 46		M	1888	L H	16 50 80 00
			<u> </u>					!	

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Founders (MET- ALS) — Con. United States - Con.	1				Founders (MET-				
New York,	M	1888	mh M	\$18 00 15 00	United States - Con. Ohio,	м	1887	M ml	\$15 00 12 00
			mi L	18 50 12 00	Pennsylvania,	м	1850	L M	7 50
Ohio,	M	1860 1861	M	28 86 28 86	,	M		M M	9 85 9 00 9 00
	M	1862 1863	M	28 86 28 86		M	1855	H	19 38 10 50
	M	1864	H	28 86		M	1856	M	11 52
	M	1865	H	25 00 28 86		M	1857 1858	M	12 00 12 00
	M	1866	L H	25 00 28 86		M	1859	H	12 00 7 80
	м	1867	L H	25 00 28 86		M	1860	H	18 50 9 00
	м]	L	25 00		١.,		L	7 80
	1	1868	H L	25 00		M	1861	H	13 50 8 04
	M	1869	H	34 62 25 00		M	1862	H	13 68 8 04
	M	1870	H	34 62 25 00		Ж	1863	H	13 68 9 00
		İ	ml L	23 10 19 23		М	1864	H	18 00
	M	1871	H	84 62		М	1865	H	9 00 23 10
			mh M	28 86 25 00		ł		mh M	20 00 18 00
	м	1872	L H	19 23 34 62		м	1866	L H	9 00 23 10
	_		mh	28 86 25 00		_	1000	M	18 00
			ml	19 23		M	1867	L H	9 00 23 10
	M	1873	H	18 00 38 46			ŀ	M L	19 98 9 00
	1		mh M	30 00 28 86		M	1868	H	23 10 20 00
	м	1874	L H	19 28		l		M	18 00
		1014	mh	80 00 ;		١		mi L	16 80 9 00
	Ì		M L	27 72 19 23		M	1869	H mb	23 10 19 98
	M	1875	H mh	38 46 80 00		i		M L	16 80 9 00
			M L	27 72 17 28		M	1870	H	23 16 16 80
	M	1876	H	38 46				ml	13 28
			M L	27 72 17 28		M	1871	H	10 50 25 01
	M	1877	H	38 46 27 72				mh M	23 16 16 80
	M	1878	L H	17 28 38 46				ml L	13 00 10 50
	_	10.0	M	26 64		M	1872	H	25 02
			ml L	20 00 14 40				.mh M	23 16 18 18
	M	1879	H mh	28 86 26 64				mi L	12 00 10 50
			M	23 10 17 70		M	1873	H	30 00
	,,	1000	L	10 08				M	20 04
	M	1880	M	38 46 24 75				mi L	15 00 10 50
	M	1881	L M	17 28 16 50		M	1874	H mh	23 16
	M	1882	H	20 61 4 50				M	19 23 16 50 13 20
	M	1886	H	83 26		,.	10=-	L	10 50
			M L	24 00 16 20		M	1875	H mh	19 68 15 66
	M	1887	н	21 00	I		1	M	11 76

		DEL			WAGES - COILL	<u> </u>			
OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	 Grade	Weekly Wages
Founders (MET- ALS) — Con.					Founders (MET-				
United States-Con.				ı	United States - Con.				
Pennsylvania,	M	1875	ml L	\$10 00 9 00	Virginia,	M	1886	H	\$30 00 24 00
	M	1876	H	33 00	West Virginia, .	M	1856	L M	6 00
			mh M	24 00 19 80		M	1857 1858	M	6 00
			ml	12 00		M	1859	M	6 00
	M	1877	L H	5 20 32 88		M	1860 1861	M	6 00 6 00
	-	1011	M	18 66		M	1868	M	9 00
			ml	15 00 4 80		M	1869 1870	M	9 00
	M	1878	H	28 84		M	1871	M	9 00
			mh M	24 00 18 00		M	1872 1873	M	9 00
			ml	11 40		M	1874	M	9 00
	M	1879	L H	5 40 30 00		M	1878 1879	M	84 62 80 00
	200	1018	mb	24 00		M	1880	M H	80 00 25 00
			M	18 48 12 00	Wilconsin		1880	L	9 00
			ml L	7 50	Wisconsin,	M	1884	H	10 50 18 00
	M	1880	H	32 89 24 66		м	1886	Ţ.	15 00
	1		mb M	20 40		ML.	1990	H mh	21 00 15 00
			ml	13 62 7 00				M	12 00
	M	1881	L H	7 00 17 52	Francisco Constitutor			L	7 86
		1000	L	10 56	Foreign Countries.		1004		4.00
	M	1882	H L	17 52 10 56	Austria,	M	1884 1885	M	4 00 4 00
	M	1883	H	18 54 10 50	Daladaaa	M	1886	M	4 00
	М	1884	L H	18 00	Belgium,	M	1882	H	8 08 6 92
	M	1888	L	12 00 13 50		M	1884 1885	M	6 95
		1000	H M	12 00		m	1990	H	6 95 4 62
Temperare.	M	1886	L M	9 00 18 00		M M	1886	M	6 95
Tennessee, United States (not					Denmark,	M	1888 1878	M	6 02 4 20
specified),	М	1880	H mh	23 28 20 00		M M	1879 1880	M	4 50
	. !		M	17 10		M	1885	M	4 82 4 82
	ĺ		mi L	13 85 12 00		M	1886 1888	M	4 82
Virginia,	М	1867	M	10 00	England,	M	1810	M	4 82 7 50
	M	1868 1869	M	10 00 10 00		M	1811 1812	M	6 72
	M	1870	H	18 00		M	1813	M	6 56 7 56
			M L	12 00 10 00		M M M	1814 1815	M	7 74 7 70
	М	1871	H	18 00		M	1816	M	8 32
			M L	12 00 10 00		M	1817 1818	M M	8 08
	M	1872	н	18 00		M	1819	M	8 60 7 56
			M L	15 00 10 00		M	1821 1822	M	7 82 7 32
	M	1878	H	15 00		M	1823	M	7 20
			M L	12 00 10 00		M	1824 1825	M	7 20
	M	1874	H	15 00		M	1832	M	7 20 7 20
			M L	12 00 10 00		M M	1839	M	7 20
	M	1875	H	15 00		M	1846 1847	M	7 20 8 40
	M	1876	L M	12 00 12 00		M	1848	M	7 14
	M	1877	H	15 00			1849	H	8 16 5 64
	м	1878	L M	12 00 18 00		M	1858 1859	M	5 04
	M	1879	M	18 00		M	1868	H	8 16 8 40
		1880	M	12 00				M	6 72

STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Founders (MET-					Founders (MET-				
Foreign Countries — Con.					ALS) — Con. Foreign Countries — Con.				
England,	М	1868	Ľ	\$4 80 7 68	Germany,	M	1888	Ħ	84 76
	M M M	1871 1877 1878	H	7 68 5 28 8 25 7 20	Holland,	M	1884 1885	L M M	3 60 4 00 4 00 4 00
	M	1879 1882	H H	8 25 8 65	Ireland,	M	1886 1857 1858	H	6 72 7 68
	M	1883 1884	L M M	7 50 9 12 8 10 8 51		M	1860 1883	L M M	5 76 6 72 7 20
	M	1885	H M ml	7 29		M	1885	H L M	8 27 6 40 7 34
	м	1886	L H L	6 06 5 00 8 78 7 78	Italy,	M	1878	M	9 60 5 49 3 00
England and Wales,	M	1884 1886	M	7 47		M	1879 1882	L M M	5 49
France,	M	1888 1884 1885	M M H	7 47 7 47 7 50 7 64		M	1884	H M L	6 00 4 00 2 8
			M L	5 82 4 05		M	1885 1886	M	4 60
Germany,	M M M	1886 1888 1865	H M M	7 50 6 54 2 50	Moravia,		1888 1885 1884	M M M	6 9
, ·	M	1866	H	1 06 2 61	Russia,	M	1885 1884	M M	4 70
	М	1867	H	1 19 2 85 1 42		M	1885 1886	H L M	8 60 4 80
	M	1868	H	4 64 2 85	Saxony,	M	1878 1874	M	4 2
	M	1869	H M	1 42 4 64 2 85		M	1875 1876 1877	M M M	3 91 3 71 3 78
	M	1870	H M	1 42 5 00	Scotland,	M	1878 1840 1850	M	3 78 4 33 4 33
	M	1871	L H	1 78 5 71		M	1857 1860	M	4 80
	м	1872	M L H	3 57 1 78 6 42		M	1861 1863	H	6 24 7 20 6 00
			M L	4 28 2 14		M	1866 1878	L M H	4 80 8 50
	M	1873	H M L	6 42 5 00 2 50		M	1879	M L M	6 85 8 70 6 90
	M	1874	H	6 42 4 04		M	1883	H	6 00
	M	1875	L H M	2 85 6 42 3 98		M	1884	H M L	9 78 6 79 5 56
	м	1876	L M	2 85 3 78		M	1888 1889	M	6 72
	M	1877 1878	H	3 78 5 50 3 00	Spain,	M	1878 1881	H L M	6 00 3 60 3 03
	M	1879	H	5 50 3 50	Switzerland, .	M	1878 1882	M	4 00
	M	1882 1883	H	5 10 3 60 5 71		M	1884	H	6 50 5 00
	M	1883	H L M	8 75 4 38		M	1885 1886	L M M	8 50 5 81 4 95
	M	1885 1886	M	4 76 4 38	Wales,	M M	1888 1840	M	4 92 8 64

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Founders (MET- ALS) — Con. Foreign Countries — Con.					Frame Tenders (COTTON, WOOL- LEN, AND OTHER TEXTILES)—Con. United States—Con.				
Wales,	M	1842 1843 1844	M M M	\$4 08 4 56 5 70	New Jersey,	M F	1884	L H M	\$3 00 5 50 8 75
	M M M M M M M M M	1845 1846 1847 1848 1849	M M M	6 72 8 08 8 02 8 40 7 28		M	1885	L H L H	2 00 10 00 7 00 10 00 5 00
Frame Tenders (COTTON, WOOL- LEN, AND OTHER TEXTILES).						F	1886	ml L H M	3 50 2 00 6 00 5 00
United States. California, Connecticut,	F M M	1888 1870 1871	M M M	6 00 4 50 4 50	New York,	F M M	1888 1886 1887 1888	L M M M H H	4 00 6 00 7 50 5 00 10 50 6 50
	M	1872 1878 1874	M M H M L	5 00 6 00 7 50 6 00 8 24		F		ml L H M L	5 00 8 60 9 00 7 50 8 00
Delaware	M M M M M M	1875 1876 1877 1878 1881 1886	M M M M	5 50 4 25 4 00 4 00 4 75 5 46	Pennsylvania,	F M F	1878 1874 1876	M M H H	7 98 5 75 4 98 9 00 6 48 4 50
Georgia,	F M F	1886 1886 1887 1883	M M M H mh	4 82 6 00 6 00 8 50 7 50		F	1877 1878	L H L H	8 00 6 00 4 20 6 48 5 40
	M	1885	M L H M	6 48 4 20 9 00 6 00 5 00	Rhode Island,	M F M	1879 1887 1888	L M M M	8 96 4 50 8 60 4 50 5 64
	F		H mh M ml	8 32 7 24 6 20 5 10 4 05	Wisconsin,	F M	1889 1888	H L M	7 00 6 00 4 02
	м	1886	L M	8 00 6 42	Foreign Countries. England,	F	1849	M	2 16
	F	1891	M H mh M ml	6 00 12 00 10 00 8 10 5 40 8 50		MFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	1850 1859 1860 1870 1874 1877	M M M M M	2 01 2 52 2 07 2 55 2 88 4 46
	F		M ml ml L	8 81 6 91 5 74 4 82 8 00		FMF	1880 1882 1888	L M M M H	2 55 3 68 8 76 2 68 4 80
New Hampebire, .	F	1888 1886	M M	5 16 6 96				M L	8 60 2 55
New Jersey,	M	1882 1883	H	12 00 8 60 12 00		F	1885 1886	H L H	4 38 2 43 4 82
	F	1000	Н Г Л	9 00 5 00 6 00	Germany,	F	1885	M L M	8 84 1 86 2 87
			mh M L	5 00 4 00 2 00	Great Britain,	M F F	1850 1864 1870	M M M	2 01 2 07 2 55
	M	1884	H	4 50		F	1874	M	2 80

OCCUPATIONS, STATES, AND COUN- TRIES.	8ex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES. OCCUPATIONS, SEX Years Grade W.W.	eekly Vages
Frame Tenders (COTTON, WOOL- LEN, AND OTHER TEXTILES)—Con. Foreign Countries					Fullers (Wool- LEN GOODS) —Con. United States - Con.	
— Con. Great Britain,	F M F	1877 1880 1883	H M M	\$2 55 8 71 2 68 8 59	Delaware, M 1886 L Illinois, M 1866 M I M 1867 M I M 1868 M I	7 98 12 00 10 00 10 00
Holland, Russia, Scotland,	F M F F	1885 1885 1866 1886	L M M M M	3 59 2 55 3 24 5 28 2 40 2 10	M 1870 M 1 M 1871 M 1 M 1872 M 1 M 1873 M 1	10 00 10 00 10 00 10 00 10 00
Fullers (Wool- LEN Goods). United States.					M 1875 M 1 M 1876 M M 1877 M	10 50 10 50 9 00 9 00 7 50
California,	M KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1886	ТНТНККККККККККККККККККККККККККККККККККК	7 50 7 50 7 50 7 50 7 50 7 50 7 50 7 50	M 1879 M M 1880 M 1880 M 1880 M M 1880 M M 1851 M M 1852 M M 1852 M M 1854 M M 1855 M M 1856 M M 1856 M M 1856 M M 1858 M M 1858 M M 1860 M M 1860 M M 1860 M M 1861 M M 1862 M M 1862 M M 1862 M M 1864 M I I 1864 M I I I I I I I I I I I I I I I I I I	7 50 9 00 7 50 7 50 7 50 7 50 7 50 7 50 7 50 7
Connecticut,	M M M M	1860 1870 1871 1872 1873 1874	M H L M H B M B L M	6 61 9 00 16 50 9 00 9 00 9 00 15 00 12 00 10 50 9 00 7 50 9 00	M 1866 M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13 50 13 50 13 50 13 50 13 50 7 50 13 50 7 50 13 50 7 50 13 50
	M M M M	1876 1877 1878 1879 1880 1886	H K K K K K K	9 00 9 00 9 00 9 00 9 00 8 10	M 1876 H 1 M 1877 H 1	6 90 13 50 6 60 13 50 6 00 13 50
Delaware,	M M M M	1887 1864 1865 1868 1869 1870	L M M M M M	6 30 8 00 10 00 9 00 9 00 9 00 9 00	M 1879 H 1 M 1880 H 1	6 00 13 50 6 00 13 50 6 60 13 50 7 20
	M M M M M M M M M	1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1886	M M M M M M M M M M	8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00	M 1886 H	7 98 6 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00 12 00
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OCCUPATIONS, STATES, AND COUNTRIES.	8ex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages
Fullers (Wool- LEN Goods) —Con.	1				Fullers (Wool- LEN Goods) —Con.				
United States - Con.	!			1	United States - Con.				
lowa,	M	1874	W	\$12 00	Massachusetts, .	M	1871	H	\$9 00
	M	1875 1876	KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	12 00 12 00		м	1872	L H	7 50 9 00
	M	1877	M	12 00				L	7 50
	M	1878 1879	M	12 00 10 50	}	M	1878	H	9 00 7 00 9 00
Valaa	M	1880	М	10 50		М	1874	H	9 00
Maine,	M	1850 1851	M	6 00 6 00		м	1875	H	7 08 7 98
	M	1852 1853	M	6 00 6 00				L	6 60
	M	1854	M	6 00		M	1876	H L	7 50 5 94
	M	1855 1856	M	6 00		M	1877	H	7 50
	M	1857	M	6 00		M	1878	L H	5 64 7 50
	M	1858 1859	M M M	6 00		м	1879	L H	5 64 7 50 5 58 7 50 5 51
	M	1880	M	6 00				L	5 51
	M	1861 1862	M	6 30		Ж	1880	H L	7 50 5 76
	M	1863 1864	M	7 50		M	1883	H	21 50
	M	1865	M M M	10 50				M ml	12 00 9 00
	M M	1866 18 67	M	10 50 10 50		м	1885	L H	9 00 6 00 12 00
	M	1868	M	9 00			1000	mh	10 50
	M	18 69 1870	M	9 00				M ml	9 00
	M	1871	Ä	9 00				L	6 00
	M	1872 1878	M M M M M M M M	9 00		M	1886	H L	7 50 6 90 9 00 6 00
	M	1874 1875	M	9 00		M	1891	H	15 50
	M	1876	M	8 52 8 10				mb M	13 70 10 50
	M	1877 1878	M M	8 10 7 92				ml	8 40
	M	1879	M I	7 92	Michigan,	М	1867	L M	6 00 10 50
	M	1880 1882	M M	7 92 8 40		M	1868 1869	M M	10 50 9 75
	M	1883	M	9 00 '		M	1870	M	9 75
Maryland,	M	1885 1886	M H	8 10 10 50		M	1871 1872	M M	9 72 9 72
Massachusetts	M	1850	L M	8 10 5 04		M M M	1878	M	10 50
	M	1851	M	4 86		M	1874 1875	M M	10 50 10 50
	M	1852 1858	M M M	4 86 5 52		M	1876 1877	M M	10 50 10 50
	M	1854	M	5 52		M	1878	M	10 50
	М	1855 1856	M	5 52 6 00		M	1879 1880	M M	9 00
	M	1857	Ħ	9 00	New Hampshire, .	M	1858	M	5 25
	и	1858	L M	5 52 5 52		M	1859 1860	M M M	5 25 5 25
	M	1859 1860	M	5 52 5 52		M	1861 1862	M M	5 25 5 25
	M.	1861	M M	5 52		M	1863	M	6 00
	M	1862 1863	M	5 52 5 52		M	1864 1865	M	5 00 7 80
	M	1864	M	7 98		M	1866	M	7 80
	M	1865 1866	M M	7 98 7 98		M	1867 1868	M. Mr	7 80 7 80
	M	1867	H	9 00		M M M M	1869	M	7 80
	M	1868	L H	6 90 ł 9 00		M	1870 : 1871	M	9 00
	М	1869	L H	6 90 10 02		M M	1872 1873	M H	9 00
	!		L	7 32			l .	L I	7 50
	M	1870	H	10 02 7 50	 	M	1874	H	9 00 7 50
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OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Fullers (Wool- LEN Goods) —Con.					Fullers (Wool- LEN GOODS) —Con.				
United States - Con.		l	!		United States - Con.	i		}	
New Hampshire, .	м	1875	м	\$ 9 00	Ohio,	M	1876	L	\$ 7 50
	M	1876	M	9 00		M	1877	H	10 50
	M	1877 1878	M	8 10 8 10		м	1878	H	7 50 10 50
	M	1879	M	7 50	 			L	7 50
	M	1880 1886	M	7 50 7 50		M	1879	H	12 00 7 50
New Jersey,	M	1882	M	7 00		M	1880	H	12 00
	M	1883	M	7 00				L	7 50
	M	1884	H	10 00 9 00	Oregon,	M	1875 1876	M	12 00 12 00
		l	L	7 00		M	1877	M	12 00
New York,	M	1886 1860	M	16 00 4 50	!	M	1878 1879	M	12 00 12 00
New LOIR,	M	1861	M	4 50	1	M	1880	M M	12 00
	M	1862	M	4 50	Pennsylvania,	M	1874	M	7 20 6 96
	M	1863 1864	M M	4 50 4 50		M	1875 1876	H	6 96 12 78
	M	1865	M	9 00		-		M	10 32
	M	1866 1867	M M	9 00		M	1877	L	6 00
	M	1868	M	9 00		M	1878	H	8 70
	M	1869 1870	M	9 00		М	1879	H	6 00 12 00
	M	1874	M	6 90		201	1010	mh	10 20
	M	1875	M	6 90				M	9 00
	M	1876 1877	M	6 90 6 90				ml L	6 60 4 80
	M	1878	M	6 90		M	1880	M	6 90
	M	1879 1880	M	6 90 I	Rhode Island,	M	1870 1880	M	6 54 8 04
	M	1886	Ĥ	9 00		M	1888	M	6 00
	M	1888	H	6 30 17 00	Utah,	M	1871 1872	M	18 00 18 00
	M.	1000	mh	15 00		M	1873	M	18 00
			M	13 50 8 00		M	1874	M	18 00
			ml ⊧LL	8 00 5 25		M	1875 1876	M	18 00 18 00
Ohio,	М	1851	M	7 50		M	1877	M	18 00
	M	1852 1853	M	7 50 7 50		M	1878 1879	M	18 00 18 00
	M	1854	M	7 50		M	1880	M	18 00
	M	1855 1856	M	7 50 7 50	Vermont,	M	1862 1863	M M	4 50 4 50
	M	1857	M	7 50		M	1864	M	4 68
	M	1858 1859	M	7 50 7 50		M	1865 1866	M	6 75 6 75
	M	1860	M	7 50		M	1867	M	6 75
	M	1861	M	7 50		M	1868	M	6 75
	M	1862 1863	M M	7 50 9 00		M	1869 1870	M	6 75 6 00
	M	1864	M	9 00		M	1871	M	6 42
	M	1865 1866	M	9 00		M	1872 1873	M	7 14 7 74
	M	1867	M	9 00		M	1874	M	7 38
	M	1868 1869	M M	9 00		M	1875 1876	M M	8 04 7 44
	M	1870	M	7 50		M	1877	M	6 80
	М	1871	H	12 00 7 50		M	1878 1879	M	6 86 6 12
	М	1872	L H L	7 50 12 00 7 50		M	1880 1886	M	6 12 6 12 6 00
	М	1873	H	12 00 7 50	Virginia,	M	1870 1871	M	6 00
	M	1874	Ħ ·	10 80 7 50		M M M	1872 1873	M	600
	М	1875	Ĥ	10 50 7 50	1	M	1874 1875	M	6 00 6 00
	M	1876	Ħ	10 50		M	1876	M	6 00
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OCCUPATIONS,		i							
STATES, AND COUN-	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Fullers (Wool- LEN GOODS) —Con.					Furnacemen — Con. United States - Con.				
United States - Con. Virginia,	MM	1877 1878 1879 1880	M M M	\$6 00 6 00 6 00 6 00	Massachusetts, .	M	1883	H mh M ml	\$16 98 15 00 13 50 11 00
	M M M	1870 1871 1872 1878 1874	M M M M	9 00 9 00 9 00 9 00		M	1885	L H mh M	9 00 15 90 14 70 18 20
	KKKKK	1875 1876 1877 1878	M	9 00 9 00 9 00		M	1891	mi L H M L	12 00 10 50 80 00 18 00 12 00
Foreign Countries.	M	1879 1880	M	9 00	Michigan, Nebraska,	M	1884 1887	M H M	10 80 13 50 12 00 9 90
	М	1870	M	2 34	New Jersey,	M	1884	H	14 00
Bavaria,	M	1882 1870	M	2 85 2 58		M	1888	H	8 10 17 50
Bohemia,	M M M M M	1882 1883 1885 1885	M M M	4 20 4 50 4 00 2 80	New York,	M	1886	mh M L	16 50 13 00 10 50
Canada,	M	1882	M	6 60	New York,	, Ma	1000	H	11 40 9 00
England,	M M M	1870 1877 1880	M M M	4 35 6 00 9 60 6 00		М	1888	L H mh M	7 50 16 80 15 00 12 60
	М	1882 1883	H M D D	4 80 2 40 9 60 6 00	Ohio,	M	1881 1882	mi L M M	10 50 9 00 11 83 10 12
	M	1884 1886	L M M	3 84 4 88 7 20 5 28	•	M	1886 1887	M H mh M	8 88 18 00 15 00 12 00
France, Germany,	M M M	1870 1870 1882	T M M	8 60 3 48 2 84 2 90	Pennsylvania,	M	1851 1852	ml L M M	9 90 6 00 6 00 6 00
	M	1887 1890	H L H	3 60 2 40 8 60		M	1858 1854 1855	M M M	6 00 6 00 6 00
Great Britain,	М	1880	L H M ml	2 40 9 68 6 05 4 84		M M M M	1856 1857 1858 1859	M	6 00 7 20 7 20 7 50
Ireland, Nova Scotia,	M	1886 1886	L M H L	2 42 2 57 5 94 4 08		KKKK	1860 1861 1862 1868	M M M	9 00 9 00 10 50 10 50
Poland,	M M M	1882 1877 1886	M M M	5 00 4 68 5 42		M M M	1864 1865 1866	M M M	10 50 12 00 13 50
Wales,	м	1886	L M	3 78 4 50		KKKK	1867 1868	M M	13 50 15 00
Furnacemen.						M	1869 1870	M	15 00 15 00
United States.						M	1871	M	15 00
	M	1888 1885	M	21 00 10 20		M	1872 1878	M H L	16 50 16 50 11 70
	M	1887 1886	H	9 42 19 50 15 00		M	1874 1875	H L M	16 50 9 30 16 50
Illinois,		1000	L M	12 00		M	1876	H	17 40
	M	1882	M	14 94 13 92	i	м		L	7 26

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	 Sex	Years	Grade	Weekly Wages
Furnacemen — Con.					Furnacemen — Con. Foreign Countries			'	
United States - Con.					Con.				
Pennsylvania,	M	1878	H	\$18 00 6 90	England,	M	1879	H	\$18 24 12 79
	M	1879	H	18 00 18 50		M	1880	H	9 60 7 20
			mh M	9 00		ľ	ļ	L	5 22
			mi L	6 00 8 00		M	1883	H mh	13 20 12 00
	M	1880	H	18 00		1		M	9 12
			mh Ma	14 52 10 80		İ		ml L	7 00 5 76
	1		mol	8 70		M	1884	M	8 48
	м	1881	L M	6 84 9 72		M	1885	H L	6 58
	M	1882	H L	9 72 7 68	Great Britain,	M	1890 1877	M M	10 20 15 81
	M	1883	M	9 98	Oreas Distant,	M	1880	H	9 68
•	M	1884 1886	M H	9 00 15 48		1		M L	7 26 5 32
			M	13 26		M	1883	H	13 38 12 17
	М	1887	L H	7 50 14 00		į	,	mh M	10 95
	M	1888	L H	11 40 15 60		ļ	!	mi L	7 30 5 84
	_	1000	mh	12 60		M	1886	М	9 60
			M ml	11 84 9 18	Italy, Scotland,	M	1882 1866	M M	13 92 4 08
United States (not			L.	7 08		M	1871	M	4 56
specified),	M	1880	н	11 00		M	1874 1878	H	5 78 7 50
•	:		M L	9 00 6 90		M	1880	L M	4 86 5 28
Utah,	M	1882	M	18 50		M	1883	H	18 00
Virginia,	M	1886 1888	M M	9 00		1	1	L	6 12
Foreign Countries.	-	1000	_	12 00	Furniture Work-	;			
Australia,	M	1889	н	11 52	ers.				
Austria,	м	1885	L M	10 08	United States. California,	M	1884	н	18 00
Belgium,	M	1885	M	2 34 3 77	Camordia,	-	100-2	mb	15 00
England,	M M	1850 1855	M M	14 59 5 40	i .			M ml	13 50 9 00
	M	1856	M	5 40		W.		L	6 00
	M	1858 18 6 0	M M	5 40 12 16	Illinois,	M	1879	H	10 50 20 00
	M	1862 1868	M M	5 40 9 72	·	İ		mh M	15 00 12 00
	M	1866	H	8 64				ml	8 00
			mh M	7 20 6 00		F		H	4 00 6 50
	м	1868	L	4 32		M	1882	H	3 50 18 00
	M.	1000	H mb	8 64 7 20		M		L	9 00
			M L	4 80 2 40		M	1884	H mh	18 00 14 70
	M	1870	M	14 59		İ		M	11 10
	M	1871	H L	7 20 5 04				ml L	7 50 4 50
	M	1874	H	8 64 7 20	Tomo	M	1886 1887	M	12 75 10 50
	M	1877	H	15 81	Iowa,	M	1860	H	20 50
		i I	mh M	14 40 12 00				M L	10 05
			mol	8 40		M	1872	H	22 22
	м	1878	L H	6 24 18 24				M L	12 44 5 83
			mh	16 00		F	10-4	M	6 67 16 92
			M ml	12 00 9 36		M	1874	H L	15 92
			L	5 04		M	1875	M	20 19

OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Furniture Work- ers — Con.	!				Furniture Work- ers - Con.				
United States - Con.				1	United States - Con.				
Massachusetts, .	M	1883	н	\$85 00		M	1887	1	A10 00
	_	2000	mh	30 00	New York,			ml L	\$12 00 8 00
			M ml	16 00 9 00	j	M	1888	H	30 00 23 00
	_		L	5 00		l		mh M	17 50
	F		H	8 00 6 00				mi L	14 00 5 00
Michigan		1884	L	3 00		M	1889	H	21 60
michigan,	M	1884	H mh	30 00 24 00				mh M	18 36 15 12
		ŀ	M	18 00				ml	12 00
			ml L	12 00 6 00	North Carolina, .	м	1887	H	9 00 10 50
	M	1886	H mh	36 00 27 00		_	100.	mh	9 00
			M	19 50				M L	6 00 8 60
			mi L	11 40 8 60		F		M	3 00
	M	1890	Ħ	13 50		M	1888	H	10 50 8 60
Missouri,	M	1872	H	7 50 24 00	Ohio,	M	1872	Ħ	12 00
	_		L	12 00		M	1877	L H	10 50 11 50
	M	1879	mh	23 00 16 00		ľ		mh M	9 67
	1		M	12 00				ml	6 00
		I	ml L	9 00 4 50		F		L M	4 00 8 50
	M	1884	H	18 00		M	1879	H	8 50 10 00
		!	mh	13 5 0 10 50				M L	7 50 6 00
			mi	5 00		M	1880	H	10 02
	м	1885	N L	3 75 9 00		M	1884	H	9 00 12 50
New Jersey,	M	1872	н	18 00		1	l	L	11 00
	M	1877	L H	9 00 18 00		M	1886	H mh	20 00 15 00
		i i	M	9 96		1		M	11 00
	M	1880	M	6 00 9 90				ml L	7 00 8 00
	M	1881	H mh	16 50 18 50		F		H	5 00
		1	M	11 40	! 	м	1887	L M	4 00 9 00
			nul L	8 70 6 00	Wisconsin,	M	1880	H T.	18 00
	M	1884	H	38 75	1	М	1881	H	18 50 18 00
	! !		M mol	18 00 12 00		M	1882	L H	13 50 18 00
W Wb			L	9 50	• •		ļ	L	18 50
New York,	M	1883	H M	18 00 18 50		M	1888	H	18 00 18 50
			ml	10 50		M	1884	H	18 00
	M	1884	H	8 00 18 00		м	1886	L M	13 50 15 00
			M ml	13 50 10 50	1	F		M	12 00
		1	L	8 00		BOL.	1888	M	5 94
	M	1885	H	19 47 14 75	Foreign Countries.				
			oo l	12 00	England,	M	1861	M	6 96
	F		L H	8 00 1 8 00 1	France,	M	1891 1878	M M	6 96 5 47
	_	1000	L	6 00	· · · · · · · · · · · · · · · · · · ·	F		M	1 42
	M	1886	H mh	38 50 27 50		M F	1874	M	4 52 1 36
			M	21 00	1	l Mr	1875	M	1 52
			ml L	13 50 5 00	1	F	1876	M	1 36 3 57
	M	1887	H mh	21 60 18 00	I	M F		M	1 36
			M	15 00	!	M	1877	M	3 24

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	 Grade 	Weekly Wages
Furniture Work- ers Con.					Furriers - Con.				
Foreign Countries — Con.					United States - Con.	.	ŀ		
Germany,	M F	1878	M M M	\$3 04 1 36 8 57	Wisconsin, .	M	1888	H M L	\$19 20 15 00 12 60
Italy,	M	1884	H	3 60 2 40		F	Ì	ĸ	7 86
Furriers.			L .	2 40	Foreign Countries.	1,5			
United States.					Austria,	M	1884 1885	H	4 60 4 60
California,	M	1884	H	15 00 7 00		M	1886	L M	8 20 4 60
	M	1885	H	15 00 10 00	Belgium,	M	1884	H	8 50 6 35
	M	1886	H	15 00		M	1885	H	7 53
	F	ļ	H	10 00 7 00	} 	M	1886	H	5 20 7 53
	М	1888	H	8 00 15 00		M	1888	'L M	6 35 6 35
	-		mh M	12 00 10 00	Canada,	M	1888 1884	M	14 00 5 36
	_		L	7 00	Denmark, .	M	1885	M	5 36
	F		H	7 00 3 00		M	1886 1888	M	5 36 5 36
Illinois,	M	1882	H	12 00 10 00	England,	M	1884 1885	M	8 50 8 75
	M	1883	H	12 00 10 00	England and Wales	M	1886 1884	M	8 50 8 52
	M	1884	L M	15 00	Pulking and Asies	M	1886	M	8 52
	M M	1885 1886	M H	15 00 15 00	France	M	1888 1884	M H	8 52 8 50
	M	1888	L M	18 00 15 00	•	м	1886	L H	7 00 8 50
Massachusetts, .	M	1885	H	80 00		1	1	L	7 00
	l		M ml	20 00 13 00	Germany, .	M	1888 1873	, M , H	7 00 3 09
Michigan,	M	1883	H	9 00 12 00		M	1874	L M	1 42 8 82
			M L	10 50 9 00		F	1875	M	1 60 3 56
Minnesota,	M	1890	M	11 64		F	1	M	1 90
Missouri,	M	1882	H	25 00 20 00		F	1876	M M	3 87 2 08
New Jersey,	M	1881	H	15 60 5 40		M	1877	M M	3 56 1 90
New York,	M	1883 1884	M	18 00 14 00		M	1878	M M	8 57 1 90
	1		L	13 00		M	1883	M	8 57
	K	1885	H	14 00 25 00		F	1884	H	2 14 4 20
	M	1886	L H	18 00 23 00		M	 1885	· H	3 15 4 98
			mh	18 00		i	1886	L	8 15
			M ml	18 50 7 50		M	ļ.	H L	4 20 8 15
	F		L H	4 00 9 00		M	1888	H M	6 70 4 50
	İ	İ	M L	7 50 6 00	Holland,	M	1884	L M	8 50 4 00
	M	1887	H	25 00	Honsau,	M	1885	M	4 00
	į		mh M	20 00 18 00 1	Ireland,	M	1886 1885	M M	4 00 8 03
	İ	l	ml L	13 00 10 00	Italy,	M	1888 1884	H	8 08 4 60
	M	1888	H	36 00		M	1885	I. M	8 80 4 60
		ļ	mh M	25 00 20 00		M	1886	M	4 60
		1	mi L	12 00 4 50	Russia,	M	1888 1884	M	4 60 4 32
Pennsylvania,	MF	1889 1871	M	11 40 15 00		M	1885	H	4 82 8 00
,	•	1311	ī	6 00		M	1886	M	4 82

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Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex.	Years	Grade	Weekly Wages
Furriers - Con.					Galvanizers				
Foreign Countries — Con.					— Con. United States - Con.	:			
Scotland,	M	1885	М	87 50	Connecticut,	M	1862 1863	M	\$8 40 8 40
Switzerland,	M	1888 18 84	H	7 50 5 22		M	1864	M	8 40
	M	1886 1888	L M M	4 05 5 22 4 68		M	1866 1866 1867	M	8 40 9 00 9 00
Gaffers (GLASS).						KKKKKKKKKKKKKKKK	1868 1869	M M	9 00
United States.				i		M	1870 1871	M	9 00
Maryland, Massachusetts, .	M	1885 1880	M	25 00 14 10		M	1872 1878	M M	9 60 9 00
	M	1885 1840	M	14 94 17 22		M	1874 1875	M	9 60 9 60
	M	1845 1855	H	19 38 24 10		M	1876 1877	M	9 60 9 60
	м	1885	Ľ	19 88 86 00		Ä	1878 1879	M	10 50 10 50
	-30	1000	mh	30 00	Massachusetta	M	1880	M	10 50
			m)	21 60	Massachusetts, .		1885	mh	18 50
New Jersey,	M	1888	H	16 20 88 00				M ml	12 00 11 00
• •			mh M	28 84 24 00	•	M	1886	L M	8 00 7 50
			ml L	20 00 15 38		M	1891	H mh	16 50 13 50
	M	1884	H	86 00 80 00				M ml	12 00 9 60
			M	24 60	Michigan	м	1884	L M	6 00 12 00
		 	ml L	17 80 18 84	Michigan,	M	1891	H	19 50
	M	1885	mb	83 00 30 00				M L	12 00 7 50
		ĺ	M ml	26 00 23 00	' Missouri,	M	1882 1884	H	10 50 16 50
	M	1886	L	18 00 84 62		M	1990	L	15 00 17 64
	-		mb M	28 85 25 00		-		mh M	15 00 13 32
	1		ml L	18 00 12 00				ml L	10 98 8 94
	M	1888	Ħ	86 00	New Jersey,	M	1861	H	15 00
			mh M	82 40 28 85		M	1883	H	7 50 18 00
	İ		ml L	24 00 21 00	New York,	M	1888	H	8 00 18 00
New York,	M	1888	H	36 00 30 00				mh M	15 00 12 00
			ml L	24 00 22 00				ml L	11 00 9 00
Pennsylvania,	M	1888	H mh	33 00 30 00	Ohio,	M	1886 1887	М	6 48 15 00
		1	M L	27 00 24 00		_		mh M	13 50 12 00
Galvanisers.	!	· ·		J 22 00				ml	7 80 6 00
United States.			_	!	Pennsylvania,	M	1888	H	10 50
California,	M	1885	H	18 00 12 00	Foreign Countries.			L	7 50
	M	1886 1888	H	15 72 18 00	Australia,	M	1878	M	14 40
Connecticut,	M	1855	L M	12 00 7 50	England,	M	1839 1849	M M	6 00 6 00
	M	1856 1857	M	7 50 7 50		м	1850 1859	M	19 46 6 00
	M	1858 1859	M	7 50 7 50		M	1860 1870	M	12 16 12 16
	M	1860	M	7 50		M	1877	M	10 46 9 78
	M	1861	M	8 40		*	1883	M	A 19
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OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Galvanizers — Con. Foreign Countries — Con. Great Britain,	M M M M	1850 1860 1870 1877 1883	M M M M	\$19 46 12 17 12 17 10 46 9 78	Gatherers (GLASS) — Con. United States - Con. California,	M M	1890 1880	H L H L	\$10 50 7 50 16 80 6 72 24 00
Gas Makers. United States.	_	1000			Indiana,	M	1880	L H M	16 50 30 00 15 00
Illinois,	M M M M	1886 1887 1886 1885	M M M H mh	12 90 13 50 9 00 10 50 9 50 8 40	Kentucky,	M	1880 1880 1885	L H L H L	6 00 12 00 6 00 10 38 3 30 17 82 5 00
New Jersey,	M M	1891 1872	ml L H M L H	7 20 6 00 18 00 15 00 9 00 21 00 12 00	Massachusetts, .	M M M M M	1850 1851 1852 1853 1854 1855	M M M M M	9 00 9 00 9 00 9 00 9 00
New York,	M M M	1877 1886 1888	H L M H M ml	18 00 9 00 7 50 17 30 13 50 11 53 9 42		M M M M M	1856 1857 1858 1859 1860 1861 1862	M M M M M	9 00 9 00 9 00 6 00 6 00 6 00
Ohio,	M M M	1877 1880 1886	H M L M	14 00 12 00 9 28 7 50 6 90		M M M M M	1863 1864 1865 1866 1867 1868 1869	M M M M M	6 00 12 00 12 00 12 00 12 00 12 00 12 00
Foreign Countries. England,	M M M M M M M M	1830 1831 1841 1866 1868 1874 1877 1880 1883 1885	M M M M M M	5 52 5 52 8 16 5 40 8 16 5 40 7 20 10 08 9 16 5 48 3 00		M M M M M M M M	1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880		15 00 15 00 15 00 15 00 16 00 15 00 15 00 15 00 15 00 15 00 15 00 15 00
Great Britain,	M M M	1857 1860 1871	H L H L H L H	10 16 9 08 7 50 5 04 2 88 6 48 4 32 6 48	Michigan,	M M M M M M	1885 1880 1873 1880 1863 1864 1865 1866	M M M M	12 69 13 50 5 00 7 00 9 18 7 92 13 80 18 42
Scotland,	M M M M	1874 1880 1866 1880	M M H L	5 04 8 40 9 60 5 76 8 88 7 44 7 92		M M M M M M	1867 1868 1869 1870 1871 1872 1878	M M M	18 42 13 80 11 52 12 66 12 66 12 66 12 66 9 18
Gatherers (GLASS). United States.		ı			I	M	1875 1876 1877 1878	M M	9 18 11 52 9 90 9 18
California,	M	1880 1886	M M	7 50 7 50	1			M L	6 00 4 20

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	8ex	Years	Grade	Weekly Wages
Gatherers (GLASS) — Con.					Gatherers (GLASS) — Con.		1		
United States - Con.	ł				United States - Con.				
New Jersey,	M	1879	Ħ	\$9 18	New York,	M	1880	ml	\$7 62
			M L	6 00 4 20 12 90		м	1888	H	4 50 18 74
	M	1880	H mh	12 90 10 56				mh	15 00
			M	6 90				M ml	12 00 9 00
	1		ml L	5 10 3 48	Ohio,	M	1870	H	5 00 80 00
	M	1881	H	12 00 10 38		l		M	18 00
	l		L	5 10		M	1871	L M	8 00 30 00
	M	1883	H mb	19 50 16 38		M	1872 1878	M	80 00 80 00
			M	13 38		M	1874	M	24 00
			ml L	10 85 7 88		M	1875 1876	M	20 70 19 98
	M	1884	H	22 50 18 46		M	1877	H	18 18
			M	16 00		M	1878	H	12 00 16 80
			ml L	18 38 9 00		1	ļ	M L	12 00 9 00
	M	1885	H	22 00		M	1879	H	15 00
	l		mh M	18 00 14 74		м	1880	H	13 20 18 96
	M	1886	H	6 90 18 76		İ		M L	14 40 12 00
	_	2000	mh	15 40		M	1882	H	24 00
	1		M ml	12 41 7 62		ŀ		M L	18 00 11 10
	м	1888	L H	5 00 88 00		M	1883	M	17 00
	_	1000	mb	25 20		M	1884 1886	H	12 00 24 06
			M ml	21 00 18 00		l		M L	18 00 18 20
Warr Warr	25	1850	L	12 00		М	1887	H	36 00
New York,	M	1851	M	12 00 12 00				mh M	27 00 21 00
	M	1852 1858	M	12 00 12 00				ml L	18 50
	M	1854	M	12 00		M	1888	Ħ	86 00
	M	1855 1856	M	12 00 12 00		1		mh M	27 00 24 00
	M	1857 1858	M M	12 00 12 00				ml	15 60
	M	1859	M	12 00	Pennsylvania,	м	1860	L M	6 00
	M	1860 1861	M	12 00 12 00		M	1861 1862	M	6 72 6 72
	M	1862 1866	M	18 50		M	1868	M.	9 12
•	M	1867	H	18 00 17 28		M	1864 1865	M	9 12 9 12
	M	1868	L M	18 80 13 80		M	1866	H	28 80
	M	1869	M	18 80				M L	21 78 11 82
	1	1870	H	16 80 18 80		M	1867	H	32 28 21 78
	M	1871 1872	M M	13 80 13 80		v	1060	L	10 62
	M	1873	H	18 80		M	1868	H	82 28 22 98
	м	1874	L M	11 52 11 52		M	1869	L H	10 62 27 66
	M	1875	M	11 52		_	1000	M	22 98
	-	1876	H	15 00 11 52		M	1870	H	10 62 27 68
	M	1877	L M	9 18 9 18		-		mh	21 00
	M	1878	M	9 18		١.		M L	17 46 9 00
	M	1879 1880	H	9 18 16 80		M	1871	H	28 04
	-		mh	15 00				mh M	21 00 17 46
			M	12 00			1	L	9 00

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Gatherers					Giggers (Wool-	╁			
(GLASS) — Con. United States - Con.					LEN GOODS) - Con. United States - Con.	1			
Pennsylvania,	м	1872	н	\$23 04	California,	м	1869	M	\$ 7 50
•			M L	17 46 9 00		M	1870 1871	M M	7 50
	M	1873	H	28 04		M	1872	M	7 50
	i .		M L	16 50 9 00		M	1873 1874	M M	7 50 7 50
	м	1874	H	23 04		M	1875	M	7 50
			M L	16 32 9 00		M	1876 1877	M M	6 48 6 48
	M	1875	H	17 81		M	1878	M	6 48
	м	1876	H	9 00 19 50		M	1879 1880	M M	6 48 6 00
	-		mh	16 32		M	1888	H	9 00
			M ml	12 00 9 00	Connecticut,	м	1860	L M	6 00 5 20
	м	1877	L H	6 00 18 00		M	1870	M M	6 00
	-	1911	mh	15 84		M	1871 1872	M	6 00 6 00
			M L	12 78 9 00		M	1873	M M	6 00
	М	1878	H	16 50		M M M	1874 1875	M	6 00
			M L	14 08 9 00		W	1876 1877	M M	6 00 6 00
	м	1879	H	21 00		M	1878	M	6 00
			mh M	17 04 14 46		M M M M	1879 1880	M M	6 00 6 00
		1	ml	10 80		M	1886	ME I	6 90
	м	1880	H	7 50 22 44		F	1887	M M	7 67 5 57
		1000	mh	17 40	Delaware,	l Mr	1865	M	8 00
			M ml	12 84 8 01		M M	1868 1869	M M	8 00
			L	4 50		M	1870	M	8 00
	M	1881	H	21 12 17 16		M	1871 1872	M	8 00 8 00
	١		L	11 16		M M M	1886	M	7 98
	M	1882	H	23 52 17 16	Illinois,	M	1873 1874	M	6 00 7 50
			ml	12 12		Į <u>₩</u>	1875	M	7 50
	F		L M	8 40 8 00		M M M M	1876 1877	M	7 50 9 00
	M	1883	H	81 82		M	1878	M	9 00
			L	22 50 9 00		M	1879 1880	M	9 00
	M	1884	H	20 88 15 00	Indiana,	W	1850	M	6 00
			L	15 00 5 56		M	1851 1852	M M	6 00
	M	1886	H mh	21 42 18 00		X	1858 1854	M M	6 00
		ŀ	M	18 20		M	1855	М	6 00
		ŀ	ml L	9 96 6 00		Ä	1856 1857	M	6 00
	M	1888	H	28 50	İ	M	1858	M	7 50
		ŀ	M L	18 00 6 00		₩.	1859 1860	M	7 50 7 50
West Virginia, .	M	1867	M	6 60		M	1861	M	7 50
	M	1880	M	13 20		l ₩	1862 1863	M M	9 00
Foreign Countries.			١,,			KWKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	1864	M	9 00
Belgium,	M M	1884 1885	M M	7 79 7 79		M	1865 1866	M	9 00
England,	M	1877	M	5 04		M	1867	M	9 00
Great Britain,	M	1878 1888	M M	5 52 7 30		M	1868 1869	M M	9 00
•	-			. ~		M	1870	M	9 00
Giggers (WOOL- LEN GOODS).						M	1871 1872	M M	9 00
United States.						M	1873	H	9 00
California,	M	1867	M	7 50		м	1874	L H	7 50 9 00
,	M	1868	M	7 50		1	-31.2	Ĺ	6 00

	GILZ	IDEI	, W.E	EKLI	WAGES - Conti	auea	l. 		
OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Giggers (WOOL- LEN GOODS)-Con. United States-Con.					Giggers (Wool- LEN GOODS) - Con. United States - Con.				
Indiana,	M	1875	H	89 00	Massachusetts	м	1885	L	84 90
	M	1876	L M	6 00 9 00		M	1886	H	9 00
	M	1877	M	9 00	i	м	1891	H	5 64 10 50
	M	1878	H	9 00 6 00				mh	9 00
_	M	1879	H	9 00				M L	7 50 5 40
•	M	1880	H	6 00 9 00	Michigan,	M	1867 1868	M	4 50 4 50
Iowa,	M	1865	L M	6 00		M I	1889	M	4 50
1044,	M	1866	M	6 00		M	1870 1871	M	4 80 4 80
	M	1867 1868	M	6 00 6 00	1	M	1872	ML	4 80
	M	1869	M	6 00		M	1873 1874	M	4 20 4 20
	M	1870 1871	M	6 00		M M M	1875 1876	M M	4 80 5 40
	M	1872 1878	M	6 00		M	1877	M	4 20
	M	1874	M	6 00 6 00		M	1878 1879	M M	4 20 4 20
	M	1875 1876	M	6 00 6 00	Missouri,	M M M	1880 1890	M	4 20
	M	1877 1878	M	6 00)	1	H	5 88 8 78
	M	1879	M	6 00	New Hampshire, .	M	1865 1866	M	7 02 7 02
Maine,	M	1880 1886	M	6 00		M	1867	M	7 02
Massachusetts, .	: M	1850	M	5 04		M	1868 1869	M	7 80 7 80
	M	1851 1852	M M M	4 50 4 50		M	1870	M	7 80
	M	1858	M	4 50		M	1871 1872	M	7 80 7 80
	M	1854 1855	M	4 50 4 62		M	1873 1874	M M	8 25 8 25
	M	1856 1857	M	4 50 6 00		M	1875	M	8 25
			L	4 50		M	1876 1877	M	8 25 7 68
	M	1858 1859	M	4 50 4 98		M	1878	M	7 50
	M	1860	M	5 04		M	1879 1880	M	7 32 7 86
	M	1861 1862	M	5 04 5 70	New Jersey,	M	1883 1886	M M	7 00 8 00
	M M M	1863 1864	M M M	6 00 7 98	New York,	M	1860	M	4 20
	M	1865	M.	8 28		M	1861 1862	M M	4 20 4 20
	M	1866 1867	M	8 46 8 52		M	1868 1864	M	4 20
	M M	1868	M	8 52		M	1866	M	7 50
	M	18 69 1870	M M M	8 52 8 70		M	1866 1867	M	7 50 7 50
	M	1871 1872	M	8 70 9 00		W W W W W W W W W W W W W W W W W W W	1868 1869	M	7 50
	M	1873	M	9 00		M	1870	M	7 50
	M	1874	H	9 00 6 90		M M	1874 1875	M M	6 90 6 90
	M	1875 1876	M M	7 50 7 50		IM.	1876	M	6 90
	M	1877	H	7 50		M	1877 1878	M	6 90 6 90
	м	1878	L	5 52 7 20		M	1879 1880	M M	6 90 6 90
	м	1879	L	5 58		M	1886	H	10 50
	M	1880	M	6 75 6 90				M L	6 18 4 50
	M	1883	H mh	9 00 7 50		M	1888	H	8 10
			M	6 42	Ohio,	М	1851	L M	6 00 7 50
	м	1885	H	4 80 15 30		M	1852 1853	M	7 50 7 50
		1	mb	11 25 9 75		M	1854	M	7 50
	1	1	mi	6 60		M	1855 1856	M	7 50 7 50
	<u> </u>	<u> </u>			<u> </u>		- 555	. —	

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex.	Years	Grade	Weckly Wages
Giggers (Wool- LEN GOODS) - Con. United States - Con.					Giggers (Wool- LEN GOODS) - Con. United States - Con.				
Ohio,	M	1857	M	\$ 7 50	Vermont,	М	1871	M	\$5 52
	M M M M M M M M M M M M M M M M M M M	1858 1859 1860 1861 1862 1863 1864 1866 1866 1867 1868 1869 1870 1871	M M M M M M M M M M M M M M M M M M M	7 50 7 50 7 50 7 50 9 00 9 00 9 00 9 00 9 00 9 00 7 50	Virginia,		1872 1873 1874 1875 1876 1877 1878 1880 1886 1870 1871 1872 1872	M M M M M M M M M M M	5 94 6 78 6 96 7 68 7 02 5 94 6 36 6 06 6 00 6 00 6 00
	M	1872	L	6 00 7 50		M	1874 1875	M	6 00
	M	1873	L H	6 00 7 50		M	1876 1877	M	6 00
	M	1874	L H	6 00 7 50		M M M	1878 1879	M	6 00 6 00
	M	1875	H	6 00 7 50	Wisconsin,	M	1880 1870	M	6 00 5 25
	м	1876	H	6 00 7 50		M	1871 1872	M M	5 25 5 25
	м	1877	H	5 40 7 50		M	1878 1874	M	5 25 5 25
	м	1878	H	5 40 7 50		M	1875 1876	M	5 25 5 25
	M	1879	H	5 40 7 50		M	1877 1878	M	5 25 5 25
	м	1880	H	6 00 7 50		M	1879 1880	M. M.	5 25 5 25
Oregon,	M	1875 1876	L M M	6 00 12 00 12 00	Foreign Countries.	1	1877	,,	5 28
	M	1877 1878	M	12 00 12 00 12 00	England,	M	1883	H	5 28 5 28 3 84
	M	1879 1880	M M	12 00 12 00		M	1886	M	5 80
Pennsylvania,	M	1874 1875	M M	7 20 6 96	Gilders (PICTURE FRAMES).		İ		
	M	1876 1877	M M	6 72 6 00	United States.		1		
	M	1878 1879	M. M.	6 00 5 88	California, Illinois,	M	1885 1882	M	18 00 12 00
	M	1880 1886	M M	6 90 9 00		M	1883 1884	M	11 00 11 00
Rhode Island,	M	1870 1880	M	6 80 6 75		M	1885 1886	M M M	11 00 12 00
Utah,	M	1870 1871	M	14 40 14 40	Maryland, Massachusetts, .	M	1885 1885	M H	13 00 18 00
	M	1872 1873	M	14 40 14 40	·			mb M	15 00 12 00
	M	1874 1875	M	14 40 14 40				ml L	7 50 6 00
	M	1876 1877	M	14 40 14 40		F		H	7 50 6 00
	W	1878 1879	M	14 40 14 40		M	1891	HI mb	18 00 15 00
Vermont,	M	1880 1862	M	14 40 4 20			Ì	M ml	12 00 10 00
	M M M	1863 1864 1865	M M M	4 20	Michigan,	M	1883	H	8 00 24 00
	M M	1866	M	6 75 6 75				mh M	20 10 13 50
	M M	1867 1868 1869	M M M	6 00 6 00		H H		ml L	7 50 3 00
	M	1870	M	5 70 4 80	i !	M	1684	M H	3 90 16 00

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weckly Wages
Gilders (PICTURE FRAMES) — Con. United States - Con.					Glass Workers — Con. United States - Con.				
Michigan,	M	1884	M L	\$13 50 12 00	New Jersey,	M	1881 1883	L H	\$9 00 23 07
New York,	F M	1888	M M	6 00 88 00 18 00		M	1885	M L H	15 00 9 00 14 05
	F		ml L H	15 00 4 00 6 00		М	1888	H M	11 54 9 00 7 50
Wisconsin,	м	1888	L M	8 00 11 52	New York,	м	1883	H	6 00 27 00
Foreign Countries.								M ml	20 00 17 00
France,	Ж	1885	M	6 90		M	1884	L H	16 00 27 00
Glass Workers.								mh M	20 76 17 00
United States.								mi L	12 00 10 00
Connecticut,	M	1887	M.	12 66 6 12		M	1885	H mh	27 00 22 10
Illinois, Indiana,	M	1886 1881	M	25 39 18 00				Mml	20 00 14 00
•			M L	9 00 5 76	,	м	1886	L	12 00 27 00
Kansas,	M	1888	H	16 50 9 00			1000	mh	20 76
Massachusetts, .	M M	1830 1835	M M	8 43 8 75		м	1888	T.	8 00
	M	1840 1845	M	9 81		*	1990	H mh	18 00 15 00
	M	1850	M	9 18				M L	12 00 6 00
	M	1855 1860	M M	10 56 17 76		71	1889	H	24 00 15 00
	М	1872	H mh	18 22 12 00	Ohio,	м	1878	L H	12 00 14 01
			M ml	7 11 5 00				mh Ma	12 00 9 75
	F		L M	3 56 4 44				ml L	6 00 8 42
	M	1875	H mh	4 44 21 00 19 68		F M	1879	М Н	8 41 16 94
			M L	11 25 7 50		м	1880	L	7 81 24 50
	F		H	9 00 7 38		- ME	1000	mh H	20 00
		1000	L	4 50		l		ml	16 00 12 10
	M	1878	H	20 00 4 50	Pennsylvania,	M	1871	L H	8 00 15 00
	F M	1881	M H	4 00 20 00		M	1879	L M	9 00 18 39
	_		M L	7 95 4 76	Foreign Countries.	M	1882	M	15 60
	F M	1883	M H	5 00 15 00	Belgium,	F	1885	м	3 60
	F		IL M	9 00 5 00	Denmark,	M	1885	Ĥ L	6 40 4 80
	М	1891	H mb	18 00 15 00	England,	М	1834	H L	8 40 6 00
			M ml	13 50 12 00	France	Ä	1884 1881	Й	8 48
	F		L	8 00	riauce,	M	1884	M	6 54 9 65
Michigan,	M	1883	H	7 00 15 00	Germany,	M	1885 1878	H	5 79 4 50
	м	1886	L H	9 00 24 00		м	1882	L M	8 00 2 22
	i		mh M	19 50 16 00		M	1884	Ĥ L	2 22 7 14 5 36
			ml L	12 00 8 00	İ	M	1885	H	7 14 5 86
New Jersey,	M	1881	Ħ	15 90				M	8 90

OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Glass Workers	_				Glaziers — Con.				
— Con. Foreign Countries — Con.					Foreign Countries — Con.				
Germany,	M	1885	Ĩ.	\$1 80 6 00	France,	M	1853 1857	L H	\$1 92 3 18
Italy,	_	1885	M	4 80				L H	2 16 6 36
Glaziers.			L	8 00		M	1871	M	4 02
United States.					·	M	1875	H	8 00 6 60
California,	M	1884	H M	24 00 21 00		-		M	4 14 2 88
			L	18 00		М	1878	H	13 44
	M	1885	H mh	24 00 18 00		1		m.h M.	10 08 8 40
	Į.	i	M L	15 00 6 00		l		ml L	6 00
	M	1888	H	80 00		М	1881	H	6 54
	ŀ		M L	18 00 15 00		ŀ		M L	8 12
Iowa,	M	1876 1877	M	5 00 5 00		M	1882	H	6 96
	M	1878	M M M	6 00 7 00	G	M	1873	L	8 18 4 28
Massachusetts, .	M	1880 1885	H	21 00	Germany,	M	1874	M	4 26
	ľ		mh	18 00 15 00	1	M	1875 1876	M	3 93 3 91
			ml L	12 00 9 00		M	1877 1878	M	3 75 5 68
	M	1891	H	24 00		1	1883	L	3 60
	İ		mh M	22 00 20 00	1	M	1885	M	4 28
Michigan,	M	1890	L M	15 00 8 00	Great Britain,	M	1888 1883	M	4 99 9 43
Missouri,	M	1884	! M	15 00	Great Britain, .	_	1000	M	7 60 6 26
New Jersey,	M	1884	H	24 00 15 00	Ireland,	M	1880	L M	6 24
New York,	M	1888	H	10 00 ' 22 00	Italy,	M	1884	¦М М	4 20 2 88
	_		mh	18 00 15 00	Prussia,	M	1882 1884	M	4 28
			ml	12 00		M	1885	M	4 20
Ohio,	M	1887	H	7 00 12 00	Scotland,	M	1874 1875	M	6 12
Wisconsin,	м	1880	L H	9 00 12 00		M	1876 1877	M	6 63
	1		L	9 00			1878	M	7 14 7 56 6 37
	M	1881	H L	12 00 9 00	Tuscany,	M	1882 1885	M	4 20
	M	1882	H L	12 00 9 00	Glue Makers.	1	ļ		
	M	1883	H	12 00 9 00	United States.			1	1
	M	1884	H	12 00	California,	M	1884	H	13 85
	M	1888	H	9 00 13 00	1	!	i I	M L	11 54 9 23
	ł		L	12 00		M	1885	H	11 54 9 23
Foreign Countries.	\ v	1070	**	10.50	Compositions	M	1075	H	6 92 21 00
Canada,	M	1878	H	10 50 9 00	Connecticut,	M	1875	mb	18 00
Denmark,	M F	1878	M	8 96 2 10	1		ļ	M ml	15 00 13 50
England,	M	1877	H	9 72	Massachusatta	1	: 1875	L	12 00 16 38
			mh M	6 65	Massachusetts, .	M	1	L	10 74
	м	 1880	L H	2 90 9 09		M	1885	· Н · М	15 00 11 25
			M L	7 20 5 76		i	ı	m.l T.	9 00
	M	1883	Ħ	7 20		M	1891	Ħ	15 00
France,	м	1853	H	4 80 4 62	I			mh M	12 00 10 00

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Gra de	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Glue Makers — Con. United States - Con.	_				Grinders (Cast- ings) — Con. United States - Con.				
Massachusetts, .	M	1891	ml	\$ 7 50	Illinois,	м	1850	M	\$ 6 00
	- 1		L	6 00		M	1852	Mr I	8 6 60
New Jersey,	M	1881	H M L	9 00 6 30 4 50		M	1858 1854 1855	M	6 00 6 00 6 00
New York,	M	1886	H	9 00 6 00		M	1856 1857	M M M M M M	7 50 7 50
	M	1888	H L	12 00 10 00		M	1858 1859	₩	7 50 7 50
Pennsylvania,	M	1871	H L	21 00 15 00		M	1860 1861	M	7 50 7 50
Foreign Countries.						M	1862 1863	₩ :	7 50 7 50
France,	M F	1885	H L M	5 80 4 63 2 31		M	1864 1865	M M M M	7 50 7 50 7 50 7 50 7 50
italy,	M F	1884	M	2 40 0 96		MEMERANAMENTA	1866 1867 1868	M	l 7.50
Gold Beaters.	- 1					M	18 69 1870	M	7 50 7 50 9 00
United States.	- 1			.		M	1871	M	900
California,	M	1885	н	14 00		M M M M M M M M M M M M M M M M M M M	1872 1873	M M	9 00 9 00 7 50 7 50 7 50
Janiorma,		1000	M	12 00	•	M	1874	M	7 50
	M	1886	L.	9 00		M	1875	M	7 50
	30.	1990	H	14 00 9 00		M M	1876 1877	M	7 50 7 50
	M	1888	H	14 00		M	1878	M	9 00
Massachusetts, .	м	1885	L H	9 00 16 00		M	1879 1886	M M	7 50 9 00 9 00 9 00 9 00
massachusens, .		1000	M	14 00	Indiana,	M	1877	M	9 00
			L	8 00		M	1878	M	9 00
	M	1891	H M	20 00 17 00		M	1879 1880	M M	10 50 10 50
			L	15 00	Massachusetts, .	M M M M	1861	M	9 00
New York,	M	1886 1887	M H	11 00 24 00		M	1862	M	9 00 7 50
	AL	1001	L	11 00		M	18 68 18 64	M M	7 50 8 40
	F		M	12 00		M	1865	M	9 00
	M	1888	H	18 00 16 50		M	1866 1867	M M	10 50 10 50
Ohio,	M	1882	M	9 42		M	1868	M	10 50
	M	1883 1884	M	16 50 8 00		M	1869	W	10 50
Pennsylvania,	M	1871	H	8 00 21 00		M	1870 1871	M M	10 50 10 50
•			L	14 00		M	1872	M	10 50
I	M	1883	M M	12 00 6 00		M	1878 1874	M	10 50 10 50
Foreign Countries.	*		100	0 00		M M	1875	M	10 50
taly,	M	1884	н	4 80		M	1876	М	10 50
,	AL .	100#	L L	2 40		M	1877 1878	M	
	i		_			M	1879	M M	7 98
Brinders (CAST- INGS).	1					M	1880 1885	M M	9 00 10 50
United States.	1					M	1891	H	10 00
Connecticut,	м	1866	3.5	0.00	10-M		7800	L	9 00
Journal of the state of the sta	M	1869	M M	9 00	Michigan,	M	1886	H	12 00 7 50
	M	1870	M	10 50		M	1891	H	18 50
	M M M M M M M M	1871 1872	M M	10 50 10 60				mah M	12 00 8 50
	M	1878	M	10 50				ml	6 00
	M	1874	M	10 60	Missouri	,	100=	L	3 30
	M	1875 1876	M M	9 60	Missouri,	M	1887	H L	9 00
	M	1877	M	8 40	New Jersey,	M	1888	H	15 00 14 00
	M	1878 1879	M M	8 40 8 40	New York,	M	1869	L M	14 00 9 00
					New York				

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	Sex	Years	Grade	Weekly Wages
Grinders (Cast- ings) — Con.					Grinders (Tools and Imple- ments) — Con.				
United States - Con.					United States - Con.			_	
New York,	M	1871 1872	M	\$6 00 6 00	California, Connecticut,	M	1888 1850	L M	\$21 00 9 00
	M	1873	H	9 00		M	1851 1852	M	9 00
	M	1874	H	9 00		M	1858	M	9 00
	м	1875	L H	6 60 9 00		M	1854 1855	M H	9 00 10 50
	м	1876	H	6 60 9 00		м	1856	H	5 40 10 50
	M		L	6 90		M		L	5 40
	_	1877	M	7 86			1857	H	5 40
	M	1878	L H	6 00 9 00		M	1858	H	10 50 6 00
	-		M L	7 50 6 00		M	1859	H	10 50 6 00
	M	1879	H	7 50		M	1860	H	10 50
	м	1880	L	6 00 7 50		M	1861	' L H	6 00 10 50
	м	1886	L	6 00 11 22		м	1862	H	6 00 12 00
		1000	M	10 02				L	6 00
	M	1888	H	9 00 18 50		M	1863	H L	13 50 6 00
			M L	12 00 9 00		M	1864	H L	15 00 6 00
Ohio,	M	1870	M	7 50		M	1865	, Ĥ	15 00
	M M	1871 1872	M M	7 50 7 50		м	1866	H	6 60 16 50
	M	1878 1874	M M	7 50 7 50		м	1867	H	6 60 16 50
	M	1875	M	7 50		_	100.	M	12 00
	M	1876 1877	H	7 50 10 50		М	1868	L H	6 60 16 50
	м	1878	L M	7 50 7 50				L	10 50 6 60
	M	1879	M	7 50		Ж	1869	H	16 50
	M	1880 1884	M	7 50 13 50				M L	10 50 6 60
Pennsylvania,	M	1885 1871	M M	12 00 15 00		M	1870	H	16 50 12 00
	M M	1872	M M	15 00		м	1871	L H	6 60 16 50
	M	1873 1874	M	15 00 14 25		-	1011	M	12 00
	M	1875 187 6	M M	14 25 14 25		M	1872	H	6 90 16 50
	M	1877 1878	M M	14 25 14 25				M L	12 00 6 90
	M	1879	M	15 00	į	М	1873	H	15 00
Foreign Countries.	M	1880	M	15 00				M L	12 00 6 90
England,	М	1857	M	10 08		М	1874	mh	18 00 15 00
	M	1868	H	6 24 4 80				M	13 98
	M	1871	H L	12 00 6 00				ml L	6 90
	М	1874	M	12 00		M	1875	H	17 46 15 00
	M	1878 1880	M H	6 78 7 92		м	1876	L	7 20 16 98
	M	1883	L M	6 48 8 88		MA	1910	M	15 00
Russia,	M	1885	M	6 48		м	1877	L H	7 20 15 60
Scotland,	M	1880	7A	5 52		_		Mi	13 50 9 00
Grinders (Tools AND IMPLE-								L	7 20
MENTS).						M	1878	H mb	15 00 13 50
United States.	M	1885	M	30 00				Й	9 00 7 20
	M	1888	H	24 00		M	1879	H	14 70

	_					_			
Occupations, States, and Coun- tries.	Sex	Years	Grade	Weekly Wages	Occupations, States, and Coun- tries,	Sex	Years	Grade	Weekly Wages
Grinders (Tools and Imple- ments) — Con.					Grinders (Tools and Imple- ments) — Con.				
United States - Con.		İ	1		United States - Con.		l		
Connecticut,	M	1879	mh	\$18 50	Massachusetts, .	M	1866	H	\$18 00
Illinois,	M F M M M M M M M M M M M M M M M M M M	1884 1885 1886 1887 1871 1872 1873 1874 1875 1876 1877 1878 1879 1890 1886		10 50 15 00 18 50 12 00 11 10 10 08 5 00 15 00 18 50 18 50 18 00 12 00 12 00 12 00 12 00 12 50 12 50 12 50 12 50 12 50 12 50 13 50 14 50 15 50 16 50 17 50 18 50 1		M M M M	1867 1869 1870 1871 1872 1873 1874 1875	MIHMIHMIHMIHMIHMIHIHIHMI	12 00 9 00 18 00 10 50 9 00 18 00 10 50 8 40 18 00 10 50 8 40 18 00 10 50 8 40 18 00 10 50 8 40 18 50 9 00 16 50 9 00 16 50 9 00 16 50 9 00 17 50 9 00 18 00 18 00 19 00 10 50
Indiana,	М	1886	ei L H M ei	12 00 10 50 21 00 10 20 9 00		м	1877	H L H M	16 50 9 60 7 50 16 50 10 50
Kentucky,	M	1866 1867	L M M	7 50 12 00 12 00		м	1879	H H L	7 80 16 50 10 50
	M	1868 1869	M	12 00 12 00		M	1880	H	7 50
	M	1870	M	12 00		_		Î.	16 50 10 50
	MMMMM	1871 1872 1873 1874 1875 1876 1877	KKKKKKKK	12 00 12 00 13 50 18 50 12 00 12 00 12 00		M	1883	H mb M ml H mb	18 00 15 00 12 00 10 40 9 00 22 50 18 00
Maine,	KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	1878 1879 1880 1886 1850 1851 1852 1853 1854 1855 1856 1857	KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	11 10 10 50 10 02 9 60 10 50 10 50 10 50 10 50 10 50 10 50 10 50		F M F M	1886 1891	M BLHLHLMHBMBL	13 50 10 00 6 30 6 50 4 98 9 48 6 18 5 70 33 00 25 00 20 00 18 50 7 50
	M M M M	1858 1859 1860 1861 1862 1863 1864	Т М М М М М М М М М М М М М	11 40 11 40 11 40 11 40 12 00 12 00 16 50 12 00 7 98 18 00 12 00 8 22	Michigan,	M M M M M M M M M M M M M M M M M M M	1874 1875 1876 1876 1878 1879 1880 1884	M M M M M M H L H B M B M B M B M B M B M B M B M B M B	9 00 9 00 9 00 9 00 9 00 9 00 15 10 14 00 11 50 9 00

(эKА	DED	WE	EKLY	WAGES — Conti	nue	Q.		
OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUN- TRIES.	8ex	Years	Grade	Weekly Wages
Grinders (Tools and Implements) — Con.					Grinders (Tools and Imple- ments) — Con.				 -
United States - Con.			ŀ		United States - Con.	ĺ		1	
Michigan,	M	1891	L	\$6 00	New York,	M	1875	M	\$12 00
Missouri,	M	1890	H	11 64 9 12		M	1876	H	8 70 15 00
	1	l	L	7 20		-	10.0	mh	12 00
New Hampshire, .	M	1854	M	13 86				M L	10 77 7 30
	M	1855 1856	M	18 86 18 86		м	1877	Ħ	7 30 15 00
	M	1857	M	13 86	i	_		M	12 00
	M	1858 1859	M M	13 86 13 86		1		ml L	10 14 8 32
	M	1860	M	18 86		M	1878	Ħ	15 00
•	M	1861 1862	M M	35 00 35 00			ł	M mol	12 00 9 20
New Jersey,	M	1888	H	18 00	ļ			L	7 32
			M L	15 00 6 00		M	1879	H	12 00 10 50
	M	1884	Ħ	18 00			!	ī	8 12
	1	1	M	16 00 15 00		M	1880	H	12 00 10 50
	м	1885	H	16 50			1	L	7 98
	M	1886	L	9 00 16 50		M	1881 1885	M	7 50 18 00
		1000	H	15 00		M	1886	H	16 20
M W			L	12 00				Ľ	9 60
New York,	M	1855	H	15 00 12 00		M	1887 1888	M	18 00 24 00
	M	1856	H	15 00	ĺ	-		mh	19 50
	м	1857	H	12 00 15 00				M ml	15 00 10 50
			L	12 00		l		L	6 00
	M	1858	H L	15 00 12 00	Ohio,	M	1870	H	12 00 9 96
	M	1859	H	15 00		M	1871	M	10 50
	м	1860	L H	12 00 15 00		M	1872 1873	M	10 50 10 50
	-		L	12 00		M	1874	M	10 50
	M	1861	H	15 00 12 00		M	1875	H	20 00 12 00
	M	1862	H	15 00			i	ī	9 96
	м	1863	L H	12 00 15 00		M	1876	H	20 00 12 00
		i	L	12 00		l		L	8 10
	M	1864	H	15 00 12 00		M	1877	H M	18 00 12 00
	М	1865	Ħ	15 00		1		L	7 50
	м	1866	L H	12 00 15 00		M	1878	H	15 00 12 00
			L	12 00				L	7 50
	M	1867	H	15 00 12 00		M	1879	H	18 00 13 50
	M	1868	H	15 00				L	7 50
	M	1869	L H	12 00 15 00		M	1880	H	20 00 13 50
		1	L	12 00				L	8 25
	M	1870 1871	M	12 00 15 00		M	1881 1882	M H	17 28 12 72
		1011	M	13 60		_	1002	Ĺ	10 86
	M	1872	L H	11 06 21 60		M	1884	H	12 00 9 00
		1017	M	15 00		M	1885	H	10 50
	м	1873	L H	12 00 15 42		M	1886	L M	9 00 11 40
	,	1010	M	12 00	Pennsylvania,	M	1872	H	15 00
	м	1074	L	10 76				L	12 00
	_	1874	H M	15 00 i		M	1873 1874	M	15 00
	1	. 10	L	10 48		M	1876	M	13 50
	M	1875	H mh	15 00 13 16	i	M	1876 1877	H	13 50 15 00
		ļ			1	l i		l	

OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages	OCCUPATIONS, STATES, AND COUNTRIES.	Sex	Years	Grade	Weekly Wages
Grinders (Tools and Imple- MENTS) — Con. United States - Con.					Grinders (Tools and Implements) — Con. Foreign Countries				
Pennsylvania,	м	1877	L	A10 EA	-Con.		1070		
realisyivania,	M	1878 1879 1880 1882	M H M L M H M L M H M H M H M H M H M H	\$13 50 13 50 15 00 13 50 9 00 13 50 16 00 18 50	England,	M	1878 1879	M mi L H mh M	\$9 72 7 20 4 80 14 58 13 38 12 12 9 72
	M M	1883 1887	L M H L	15 00 16 50 15 00		М	1880	H M	8 52 9 60 6 90 5 76
Wissensin	M	1888 1888	H M L	18 00 15 00 13 50		M	1883	H mh M	12 00 10 80 8 40
Wisconsin, .	.04	1888	H L	15 00 10 50	Great Bultoin	м	3000	ml L	6 00 4 80
Foreign Countries.	M	1010		33 60	Great Britain,	M	1880	H M	9 68 7 74
England,	M	1810 1822	H L H L	24 00 24 00 16 80		M	1883	H mh	5 57 9 73 8 27 6 81
	M M M	1825 1826 1829	M M M	21 60 28 80 26 40		M	1885	M ml L M	5 60 3 41 3 65
	M M	1830 1832 1833	M M M	24 00 16 80 24 00	Gunsmiths. United States.				
	M	1840	mh M	12 96 9 84 8 40	California,	M	1884	H M L	21 00 15 00 12 00
	M	1850	ml L H M ml	6 20 4 80 12 96 8 88 7 20		M	1885	H mh M ml	24 00 21 00 18 00 15 00
	M	1857	L H mh M	5 04 12 24 10 08 8 64		M	1886 1888	L H L H	12 00 21 00 15 00 21 00
	M	1860	mi L H M	6 48 4 80 12 96 9 12 6 72	Kansas,	M	1886 1885	L M H mh	15 00 18 00 21 00 16 20 15 00
	M	1863	L H	4 80 8 64	Michigan,	м	1884	ml L M	12 00 7 50 15 00
	M	1866	L H M ml	6 24 16 80 12 00 9 60	Missouri,	M M M	1879 1879 1888	M M H	18 00 9 00 80 00
	M	1868	L H M ml	6 48 16 80 12 00 9 60	North Carolina, .	M	1888	M mi L M	12 00 9 00 6 00 9 00
	M	1871	L H mh M L	6 48 9 72 8 64 7 20 5 76	Foreign Countries. Argentine Republic, Denmark, Germany,	M M M	1878 1878	M M	3 69 4 20 6 00
	M	1874	H	9 60	1		1878	H	2 25
	M	1877 1878	L M H mh	7 68 7 44 14 58 12 12	Ireland,	M	1858 1884	H L H L	7 20 5 76 8 40 4 80

ANALYSIS.

We reproduce from the analysis of the presentation of Graded Weekly Wages in the Bureau report for 1895 certain explanatory information which is equally applicable to the present report.

The information contained in the preceding table has been obtained from many sources. Naturally, the previous reports of this Bureau have been drawn upon to supply the wage statistics for this State. The quotations for 1891, however, were obtained by Special Agents sent out by the Bureau, and have never before appeared in print. The Reports issued by the Bureaus of Statistics of Labor in the other States of the Union have supplied the statistics for those States; in addition, facts both for Massachusetts and other States of the Union have been supplied by the United States Census of 1880, in one volume of which elaborate statistics of wages were reported, covering the time between 1830 and 1880, or a period of fifty years. The wage statistics for Foreign Countries have been drawn from consular reports made by American and British consuls to their respective home governments. The reports issued by the United States Department of Labor have also supplied us with a wide range of wage statistics.

The usual classification of manufactures and mechanical work is by "Industries," this being the general term under which are congregated and aggregated the various branches of occupations which, when carried on simultaneously and in succession, result in the various completed products known as "Manufactures." In each of these industries are found many kinds of work or labor usually denominated "Branches of Occupations," a more exact term than the word "Occupations." These branches of occupations, considering all industries, are very numerous. In the Massachusetts State Census of 1885 the original classification of occupations for the State resulted in the use of more than 23,000 designations of "Branches of Occupations," in the 83 manufacturing and mechanical industries considered. Consolidations were made as far as practicable before printing, and some 6,000 designations were merged in others, leaving, however, a total of 17,253 which appeared in print.

It is this great variation in the kinds of labor carried on in an industry that affects the value of wage statistics as usually presented. In previous reports of the Bureau we have spoken of the deceptive character, and, in many instances, absolute worthlessness of statistics showing average wages. Such averages have often been obtained by taking the weekly wages paid for labor of a high grade, possibly of a foreman at \$24 per week, and com-

bining it with some other occupation in which the weekly wages were much less, for example \$10, the average of the two, \$17, being presented as "average wages" in the industry. It is evident that averages of wages are not representative unless they are quotations for the same branch of occupation. It is misleading to take wage quotations for five or six different branches of occupation in an industry, there being variable numbers of persons employed in the different branches considered, and present an average based upon these quotations as the average wages paid in the industry. If all the branches of occupation in an industry were represented, and the wage quotations for each branch were for a number of persons having the same relation to the total number of persons considered, that the number employed in each branch bears to the total number employed in the industry, then the averages arrived at could be considered as indicative; but every variation from the proper numerical relation of the number employed in the different branches of occupation to the whole number employed in the industry must to that extent vitiate the resulting averages.

This Bureau is now engaged in tabulating the occupations for the State Census of 1895. As the result, a consolidation of the 17,253 branches of occupations presented in the State Census of 1885 will be shown under 3.919 classifications in the Census of 1895, these classifications being distributed through 81 industries, which represent the classified manufactures and mechanical work of the Commonwealth. When the totals are obtained for each branch of occupation, we shall be able to present for each industry a percentage table showing the proportion that the number employed in each branch of occupation bears, numerically, to the total number of persons employed in the industry. We shall then have for each industry a basis which can be referred to in the consideration of average wages. It may be found, for example, that one branch of occupation includes twentyfive per cent of the whole number of persons employed in an industry, while another branch includes but one per cent of the total number. The pay of the persons included in the one per cent class might run from \$20 to \$36 per week, while the pay of those employed in the twenty-five per cent class might never exceed \$12. It is evident that such a variation as this in the relation of different branches of occupation to the total number of persons employed in an industry would require to be borne in mind in order that any data representing average wages might not be misleading.

In the introduction to this Part, just preceding the detail table, we have referred to the fact that the graded weekly wages presented therein cover only those branches of occupations, the initial letters of the names of which are either D, E, F, or G. The following table shows the 99 branches of occupations included in the tables, the number of States of the Union, and the number of Foreign Countries from which quotations were secured for each branch of occupation considered, and the respective numbers of quotations, for the United States and for Foreign Countries, as regards each branch of occupation.

	UNITED	STATES	Fori Coun	EIGN TRIES
Branches of Occupations.	States rep- resented	Quota- tions	Countries rep- resented	Quota- tions
Decorators (china and stone ware),	6	60	5	50
Designers (textiles),	7	40	4	5
Die makers and sinkers,	4	31	2	
Doffers (cotton, woollen, and other textiles), .	20	422	9	6-
Door, sash, and blind makers,	13	64	1	
Doublers (cotton, woollen, and other textiles), .	9	94	8	4
Draughtsmen,	15	182	5	
Drawers-in (textiles),	21	423	12	9
Dressers (cotton, woollen, and other textiles),	16	465	13	9
Dressers (leather),	4	22	4	1
Dressmakers,	16	98	1 4	1:
Drillers (metals),	12	60 .	6	5
Drillers (stone),	11	38	· <u> </u>	·
	8	70	6 1	3
Dryers (cotton, woollen, and other textiles), Drybberg (chinhuilding)	8	31	"	
Dubbers (shipbuilding),	26	698	19	24
Dyers,	21	416	3	1
Edgers (lumber),	8	44	' _	
Edge setters (boots and shoes),	11	165	_	
Edge trimmers (boots and shoes),	8	46	_	
Electricians,	8	26		
Electrotypers,	10	37	_	
Embroiderers (clothing).	7	50	5	1
Enamellers,	5	18	2	î
	23	450	11	8
	23	381	4	2
Engineers (food preparations),	15	368	*	-
Engineers (furniture),		187		
Engineers (glass),	10	431	5 2	
Engineers (machines and machinery),	15		_ [6
Engineers (metals and metallic goods),	20	602	8	e
Engravers (glass),	7	109	3	
Engravers (wood),	11 6	51 33	17	3
	9	. '		
Feeders (metals and metallic goods),	1 1	81	-	,
Feeders (press),	13	118	8	1
Filling carriers (cotton, woollen, and other textiles),	11	48	_	
Finishers (bookbinding),	7	41	3	
Finishers (boots and shoes),	12	246	2	1
Finishers (carriages and wagons),	12	198	1	
Finishers (clocks, watches, and jewelry),	6	36	' -	
finishers (cooking, lighting, and heating appara-	1			
tus),	6	116		

	UNITED	STATES	Fori Coun	
Branches of Occupations.	States rep- resented	Quota- tions	Countries rep- resented	Quota- tions
Finishers (cotton, woollen, and other textiles), .	21	429	9	72
Finishers (furniture),	15	415	_	-
Finishers (glass),	8	147	2	6
Finishers (hats),	8	88	3	14
Finishers (leather)	10	149	2	3
Finishers (metals and metallic goods),	11	97	5	35
Finishers (paper),	15	410	4	21
Finishers (pianos and organs),	8	152	2	13
Firemen (cotton, woollen, and other textiles),	18	90	14	79
Firemen (food preparations),	13	191	4	14
Firemen (gas and residual products),	7	72	5	35
Firemen (liquors: malt, distilled, and fermented),	7	38	2	2
Firemen (lumber),	12	62		
Firemen (metals and metallic goods),	16	177	6	24
Firemen (paper and paper goods),	16	369	3	
Rittons (hoots and shoot)	16	333	1	
•	10	137	2	4
Flangers (machines and machinery),	9	160	4	18
Flatteners (glass),	10	48	7	21
Folders (book),	18		2	10
Folders (cloth),	1	266		10
Folders (paper),	11	194 142	-	•
Foremen (agricultural implements),	10		-	•
Foremen (artisans' tools),	8	92	-	
Foremen (boots and shoes),	1		1	
Foremen (brick, tiles, and sewer pipe),		128	1	1
Foremen (building),		278	6	20
Foremen (carriages and wagons),		226	2	
Foremen (clothing),	13	192	1	
Foremen (cooking, lighting, and heating appara-	ļ	1		
tus),	9	195	-	•
Foremen (food preparations),	15	140	4	!
Foremen (furniture),	18	525	1	
Foremen (gas and residual products),	6	78	2	
Foremen (machines and machinery),	15	183	3	
Foremen (metals and metallic goods),	17	30 3	9	3
Foremen (paper and paper goods),	16	537	2	1
Foremen (printing, publishing, and bookbinding),	11	76	7	2
Foremen (railroad construction and equipment), .	10	50	3	;
Foremen (wooden goods),	11	102	-	
Forgers (metals),	9	. 300	7	8
Founders (metals),	21	451	19	18
Frame tenders (cotton, woollen, and other textiles),	12	96	6	3
Fullers (woollen goods),	21	407	14	3

								United	STATES	Foreign Countries	
Bra	NCH:	ES 01	r Oc	CUPAT	ions.			States rep- resented	Quota- tions	Countries rep- resented	Quota- tions
Furnacemen, .								16	107	7	60
Furniture worke	rs,							11	159	4	13
Furriers,		•	•	•	•	•		10	66	14	70
Gaffers (glass),								5	45	-	
Galvanizers, .			•					9	70	3	1.
Gas makers, .								9	26	5	2
Gatherers (glass),		. •					13	268	3	1
Giggers (wooller	ı go	ods)	,					21	316	1	
Gilders,					•	•	•	7	36	1	
Glass workers, .								10	102	6	2
Glaziers,							•	9	47	12	6
Glue makers, .								6	31	2	
Gold beaters, .				•	•			5	26	1	
Grinders (castin	gs),							10	133	3	1
Grinders (tools a	and	imp	lem	ents),				15	366	2	7
Gunsmiths, .				•		•		8	25	5	
Totals, .								_	17,615	_	2,29

An examination of the table will show that for some branches of occupations the returns, as regards number of States, countries, and quotations, are much more numerous than for others. We recapitulate a few of the more important lines:

Returns are presented from 20 States and nine Foreign Countries of the wages of Doffers employed in cotton, woollen, and other textile mills, the number of quotations aggregating 486.

There are 514 quotations of the wages of Drawers-in employed in textile mills, the facts coming from 21 States and 12 Foreign Countries.

Dressers, employed in cotton, woollen, and other textile mills, are represented by 557 quotations from 16 States and 13 Foreign Countries.

There are 942 quotations for Dyers from 26 States and 19 Foreign Countries; for Dyers' Helpers, 431 quotations from 21 States and three Foreign Countries.

Engineers, employed in cotton, woollen, and other textile mills, have wage quotations from 23 States and 11 Foreign Countries, the quotations numbering 532.

Engineers, employed in factories engaged in the manufacture of food preparations, are represented by returns from 22 States and four Foreign Countries, with 406 quotations.

Engineers, employed in foundries or shops working metals or making metallic goods, show 663 quotations drawn from 20 States and eight Foreign Countries.

There are 501 quotations for Finishers employed in cotton, woollen, and other textile mills, supplied by 21 States and nine Foreign Countries.

Finishers, employed in paper mills, are represented by 431 quotations from 15 States and four Foreign Countries.

Quotations numbering 337, from 17 States and nine Foreign Countries, give the wages of Foremen employed in occupations connected with metals and metallic goods.

Founders of metals are represented by 637 quotations from 21 States and 19 Foreign Countries.

There are 446 quotations relating to the wages of Fullers in woollen mills from 21 States and 14 Foreign Countries.

For Gatherers, employed in glass works, there are 273 quotations from 13 States and three Foreign Countries.

For Grinders of tools and implements there are 439 quotations from 15 States and two Foreign Countries.

These are some of the principal lines but the presentation as a whole, combined with that for last year, as regards comparative features, is far in advance of any similar statistics presented by this Bureau in previous reports. We may summarize the presentations for the two years as follows:

	YEARS.						Number	QUOTATIONS			
							of Branches of Occupations Considered	From States of the Union	From Foreign Countries	Totals	
1895,							103	21,118	4,376	25,494	
1896,	•	•	•	•		•	99	17,615	2,299	19,914	
Totals,				202	38,733	6,675	45,408				

The chief value of the presentation of statistics of wages comes from the opportunities afforded for comparison. Such comparisons form the logical basis for an analysis of statistics such as have been presented in the tables of Graded Weekly

Wages. We present the following table of comparisons for each branch of occupation considered in the present report.

A description of the formation of the table and the relations of its various parts will be found necessary for a proper comprehension of the presentation.

In the left-hand column the branches of occupation are given. Under each branch of occupation, quotations are given for high, medium high, medium, medium low, and low weekly wages for Massachusetts, and for the Other United States considered as a whole, and for Foreign Countries considered as a whole, the vear for which the wage quotation is applicable being also given. In each case, the High grade represents the highest wages that were paid in any State or Country, and the Low grade represents the lowest wage. By combining the specified High and Low grades, and dividing by two, we obtained a The figure which represents this medium (or the nearest to it) we graded as Medium, and considered the States or Countries wherein such wage occurred. The Medium High and Medium Low grades were obtained in like manner; the former by the combination of the High and Medium grades, and

		_			Нюн	ı
	Branches of Occupations, States, and	o Cor	NTRIE:	5.	Weekly Wages	Year
	Decorators (china and stone was	re).			ļ	
1	Massachusetts,				\$18.00	1891
2	Other United States,				48.00	1887
3	Foreign Countries,				18.20	1878
4	Other United States,				(-) 30.00	_
5	MASSACHUSETTS Foreign Countries, .				(—) 0.20	-
	Designers (textiles).					
6	Massachusetts,				36.00	1891
7	Other United States,				40.00	1886
8	Foreign Countries,				28.80	1877
9	Other United States,				() 4.00	-
10	MASSACHUSETTS Foreign Countries, .				(+) 7.20	-
	Die makers and sinkers.				l i	
11	Massachusetts,				40.38	1885
12	Other United States,				36.00	1874
13	Foreign Countries,				13.92	1839
14	Other United States,				(+) 4.38	-
15	MASSACHUSETTS Foreign Countries, .				(+) 26.46	_

the latter by combining the Low and Medium grades. A comparison is then instituted between the figures supplied for Massachusetts, and those for the Other United States as a whole, and for Foreign Countries as a whole. Wherever the figures quoted for Massachusetts are greater than those for the other United States, or for Foreign Countries, the excess is printed preceded by a plus sign (+). Where the weekly wages for Massachusetts were less than those given for Other United States, or for Foreign Countries, the figures indicating the fact are preceded by a minus sign (—). In case the quotations are the same, the fact of equality is indicated by the proper sign (=). Where the lack of quotations prevents the instituting of comparisons, dashes are used to indicate their absence (-).

From this table, therefore, can be obtained the exact amount of the excess or deficiency, as regards each branch of occupation shown by the Massachusetts wage quotation in each grade, as compared with that given for the Other United States or Foreign Countries; and also the year in which the given quotation in each specified grade appeared.

		Low	Low	MEDIUM	M	MEDIU	High	MEDIUM
	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages
1	1885	\$8.00	-	-	1891	\$12.00	1891	\$ 15.00
2	1885	3.00	1887	\$13.50	1887	24.00	1887	36.00
3	1871	1.44	1884	5.71	1863	9.60	1877	12.00
4	-	(+) 5.00	-	-	-	() 12.00	-	(—) 21.00 l
5	-	(+) 6.56	-	-	-	(+) 2.40	-	(+) 3.00
į		i	1	¦				I
6	1885	7.50	1891	18.00	1891	24.00	1891	30.00
7	1888	5.00	1883	15.00	1880	24.71	1880	30.00
8	1886	1.92	1866	8.64	1886	15.60	1888	24.00
9	-	(+) 2.50	-	(+) 3.00	-	(—) 0.71	-	(==)
10	-	(+) 5.58	-	(+) 9.36	-	(+) 8.40	-	(+) 6.00
11	1891	6.00	1850	13,50	1891	24.00	1891	28.00
12	1888	6.00	1888	15.00	1887	21.00	1888	30.00 ¹
13	1866	9.60	1849	10.80	1859	11.52		-
14		(=)		(-) 1.50		(+) 3.00	_	() 2.00
15	_	(-) 3.60	_	(+) 2.70	_	(+) 12.48	_	

	Program of Construction Construction	Hid	н
_	BRANCHES OF OCCUPATIONS, STATES, AND COUNTRIES.	Weekly Wages	Year
	Doffers (cotton, woollen, and other textiles).		
1	Massachusetts,	. \$9.30	1885
2	Other United States,	8.10	1887
3	Foreign Countries,	3.90	1883
4	Other United States.	(+) 1.20	_
.5	MASSACHUSETTS Foreign Countries,	(+) 5.40	-
	Door, sash, and blind makers.		
6	Massachusetts,	21.00	1891
7	Other United States,	24.00	1885
8	Foreign Countries,	8.64	1880
9	MASSACHUSETTS Countries	. (—) 3.00	_
10	MASSACHUSETTS Foreign Countries,	(+) 12.36	-
	Doublers (cotton, woollen, and other textiles).		
11	Massachusetts,	10.00	1891
12	Other United States,	10.00	1886
13	Foreign Countries,	6.32	1886
14	Other United States,	(=)	_
15	MASSACHUSETTS Foreign Countries,	(+) 3.68	-
	Draughtsmen.		
16	Massachusetts,	33.00	1891
17	Other United States,	50.00	1883
18	Foreign Countries,	24.30	1878
19	Other United States,	() 17.00	<u> </u>
20	MASSACHUSETTS Other United States,	(+) 8.70	-
	Drawers-in (textiles).		
21	Massachusetts,	. 13.80	1883
22	Other United States,	10.80	1886
23	Foreign Countries,	8.76	1886
24	MASSACHUSETTS Other United States,	(+) 3.00	-
25	(MASSACHUSETTS) Foreign Countries,	(+) 5.04	-
	Dressers (cotton, woollen, and other textiles).	}	ı
26	Massachusetts,	23.34	1871
27	Other United States,	20.58	1871
28	Foreign Countries,	14.60	1883
29	MASSACHUSETTS Other United States,	(+) 2.76	-
30	MASSACHUSETTS (Foreign Countries,	(+) 8.74	-
	Dressers (leather).		
31	Massachusetts,	18.00	1885
32	Other United States,	30.00	1871
33	Foreign Countries,	10.80	1878
34	Magazines of Other United States,	() 12.00	_
35	MASSACHUSETTS Foreign Countries,	(+) 7.20	_

Миним	Нюн	Мери	'X	Менси	Low	Low		
Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	<u> </u>
\$ 7.20	1885	\$ 5.34	1886	\$3.30	1867	\$1.35	1874	1
6.60	1874	4.50	1888	2.76	1887	1.00	1860	2
2.98	1886	2.12	1882	1.22	1885	0.34	1886	3
(+) 0.60	_ '	(+) 0.84	_	(+) 0.54	_	(+) 0.35	-	4
(+) 4.22	-	(+) 3.22	-	(+) 2.08	-	(+) 1.01	-	5
18.00	1885	15.00	1891	12.00	1885	7.50	1891	6
19.50	1883	15.00	1888	10.50	1887	6.00	1888	7
-	-	-	-	-	-	7.20	1880	8
(-) 1.50	- !	(=)	-	(+) 1.50	-	(+) 1.50	-	9
-	-	-	-	-	-	(+) 0.30	-	10
8.00	1891	6.18	1885	4.20	1836	2.50	1885	11
8.00	1888	6.00	1886	4.00	1888	2.22	1867	12
4.98	1886	3.72	1886	2.46	1886	1.19	1882	13
(=)	!	(+) 0.18	-	(+) 0.20	-	(+) 0.28	-	14
(+) 3.02	-	(+) 2.46	-	(+) 1.74		(+) 1.31	-	15
27.00	1891	21.00	1891	15.00	1891	11.50	1885	16
38.82	1889	30.00	1886	18.60	1880	7.98	1886	17
-	-	17.03	1885	10.50	1881	5.00	1885	18
() 11.82	- i	(-) 9.00	-	() 3.60	-	(+) 3.52	-	19 20
- 	-	(+) 3.97	-	(+) 4.50	-	(+) 6.50	-	20
10.50	1883	8.10	1885	5.16	1869	2.25	1838	21
8.70	1880	6.42	1883	4.12	1860	1.80	1874	22
6.76	1886	4.87	1883	2.90	1882	1.02	1886	23
(+) 1.80	- 1	(+) 1.68	-	(+) 1.04	-	(+) 0.45	-	24
(+) 3.74	-	(+) 3.23	-	(+) 2.26	-	(+) 1.23	-	25
18.00	1870	13.12	1877	8.03	1885	3.00	1843	26
16.00	1884	11.76	1888	7.38	1886	3.00	1886	27
11.28	1886	8.16	1886	4.80	1882	1.44	1883	28
(+) 2.00	-	(+) 1.36	-	(+) 0.65	-	(=)	-	29
(+) 6.72	-	(+) 4.96	-	(+) 3.23	-	(+) 1.56	-	30
16.00	1885	14.00	1885	11.00	1891	9.00	1891	31
-	-	20.00	1871	13.50	1888	8.25	1888	32
8.16	1866	6.00	1878	4.32	1859	2.10	1878	33
-	-	(-) 6.00	-	() 2.50	_	(+) 0.75	_	34
(+) 7.84	-	(+) 8.00	-	(+) 6.68	-	(+) 6.90	-	35

		Hior	r
	Branches of Occupations, States, and Countries.	Weekly Wages	Year
	Dressmakers.		
1	Massachusetts,	\$13.50	1888
2	Other United States,	20.00	1889
3	Foreign Countries,	5.82	188
Į	Other United States,	(-) 6.50	
5	MASSACHUSETTS Foreign Countries,	(+) 7.68	
	Drillers (metals).		
3	Massachusetts,	30.00	189
7	Other United States,	30.00	188
3	Foreign Countries,	12.2 4	187
9	Other United States,	·(=)	
)	Massachusetts Foreign Countries,	(+) 17.76	
	Drillers (stone).		
l	Massachusetts,	15.00	188
2	Other United States,	15.00	188
3	Foreign Countries,	-	
1	Other United States,	(=)	
5	MASSACHUSETTS Foreign Countries,	-	
	Dryers (cotton, woollen, and other textiles).		
3	Massachusetts,	12.00	188
7	Other United States,	15.00	188
3	Foreign Countries,	8.43	187
9	Other United States,	() 3.00	
)	MASSACHUSETTS Foreign Countries,	(+) 3.57	
	Dyers.		
ı	Massachusetts,	46.19	188
2	Other United States,	36.00	188
3	Foreign Countries,	19.46	188
•	Other United States	(+) 10.19	
5	MASSACHUSETTS Foreign Countries,	(+) 26.73	
	Dyers' helpers.		
3	Massachusetts	10.50	189
7	Other United States.	15.00	188
3	Foreign Countries,	7.79	188
9	Other United States,	() 4.50	-30
)	MASSACHUSETTS Foreign Countries,	(+) 2.71	
		(.,,=.,,	
ı	Edgers (lumber). Massachusetts,	15.00	189
2	Other United States.	21.00	188
3	Foreign Countries,	21.00	100
4		() 6.00	
_	MASSACHUSETTS Countries	() 0.00	
5	Foreign Countries,		

MEDIUM	Нісн	MEDII	M	MEDIUM	Low	Low		
Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	
\$ 10.38	1883	\$8.00	1885	\$5.00	1885	\$3.00	1885	
16.00	1888	11.40	1887	7 00	1888	3.00	1888	
4.80	1878	3.60	1878	2.88	1885	1.46	1886	
() 5.62	-	() 3.40	_	() 2.00	-	(=)	_	1
(+) 5.58	-	(+) 4 40	-	(+) 2.12	-	(+) 1.54	-	!
24.00	1891	15.00	1891	10.00	1885	4.50	1885	İ
-	-	16.98	1888	10.80	1886	4.50	1891	
9.84	1883	7.20	1880	4.68	1880	2.10	1880	1
- i	-	(—) 1.98	-	() 0.80	-	(=)	-	1
+) 14.16	-	(+) 7.80	-	(+) 5.32	· -	(+) 2.40	-	1
12.50	1885	10.50	1885	9.00	1885	7.50	1885	1
12.00	1889	9.00	1888	6.12	1889	4.02	1889	1
	-	! - ;	-	-	-	-	-	1
(+) 0.50	-	(+) 1.50	-	(+) 2.88	-	(+) 3.48	-	1
-	-	-	-	-	-	-	-	1
10.00	1891	7.50	1885	5.76	1883	3.00	1891	1
12.00	1885	9.00	1888	6.00	1886	3.00	1876	1
6.74	1883	4.88	1886	3.30	1883	1.68	1883	1
(-) 2.00	-	() 1.50	-	() 0.24	-	(=)	-	1
(+) 3.2 6	-	(+) 2.62	-	(+) 2.46	-	(+) 1.32	-	2
30.00	1891	24.00	1891	15.00	1886	4.50	1883	2
28.00	1886	20.00	1888	12.00	1890	3.90	1835	1
14.40	1883	10.80	1878	6.00	1886	1.20	1832	2
+) 2.00	-	(+) 4.00	-	(+) 3.00	-	(+) 0.60	-	2
+) 15.60	-	(+) 13.20	-	(+) 9.00	-	(+) 3.30	-	2
8.52	1869	6.60	1874	4.50	1883	3.00	1891	2
12.00	1874	8.64	1888	5.40	1878	2.34	1890	2
- -	-	4.32	1866	2.80	1883	1.56	1886	2
(—) 3.48	-	(-) 2.04	-	() 0.90	-	(+) 0.66	-	2
-		(+) 2.28 	-	(+) 1.70	-	(+) 1.44	-	3
12.00	1891	9.00	1885	7.50	1885	6.00	1885	3
18.00	1887	13.50	1888	10.50	1886	6.90	1879	3
	-	-	-	-	-	-	-	3
(—) 6.00	-	() 4.50	-	(—) 3.00	-	() 0.90	-	3
-	-	-	-	-	-	- 1	-	3

		Higi	ŧ
	Branches of Occupations, States, and Countries.	Weekly Wages	Yes
	Edge setters (boots and shoes).		
1	Massachusetts,	\$28.5 0	187
2	Other United States.	35.00	188
3	Foreign Countries.	_	
į	Other United States,	() 6.50	
5	MASSACHUSETTS Foreign Countries,	-	
	Edge trimmers (boots and shoes).		
3	Massachusetts,	28.00	188
7	Other United States,	28.00	188
3	Foreign Countries,	-	
9	Other United States,	(=)	
)	MASSACHUSETTS Foreign Countries,	-	
	Electricians.		
l	Massachusetts,	32.00	189
2	Other United States,	53.33	189
3	Foreign Countries,	-	
ŧ	Other United States,	() 21.33	
5	MASSACHUSETTS Foreign Countries,	-	
	Electrotypers.		
3	Massachusetts,	30.00	188
7	Other United States,	28.50	188
3	Foreign Countries,	-	
•	MASSACHUSETTS Other United States,	(+) 1.50	
)	Foreign Countries,	-	
	Embroiderers.		
L	Massachusetts,	20.00	189
2	Other United States,	35.00	189
3	Foreign Countries,	4.80	18
ı	Other United States,	(—) 15 .00	
5	MASSACHUSETTS Foreign Countries,	(+) 15.20	
	Enamellers.		
6	Massachusetts,	20.00	189
7	Other United States,	24.00	188
3	Foreign Countries,	11.52	187
9	Other United States,	() 4.00	
)	MASSACHUSETTS Foreign Countries,	(+) 8.48	
	Engineers (cotton, woollen, and other textiles).		
l	Massachusetts,	36.00	189
2	Other United States,	30.00	188
3	Foreign Countries,	24.00	188
ŧ	MASSACHUSETTS Countries	(+) 6.00	
	MASSACHUSETTS Foreign Countries,	(+) 12.00	

Мкопси	HIGH	MEDI	UM	Medica	Low	Lov	r	T
Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	1
\$24. 00	1885	\$18.00	1883	\$12.50	1891	\$7.00	1885	1
28.00	1888	21.00	1888	14.00	1885	7.00	1885	2
-	_	_	_	_	_	_	_	3
() 4.00	-	() 3.00	_	() 1.50	_	(=)	-	4
-	-	-	-	-	-	-	-	5
22.50	1885	18.00	1891	13.50	1885	9.00	1885	6
25.00	1888	18.90	1874	14.00	1882	9.00	1886	7
-	-	-	-	-	-	-	-	8
(-) 2.50	-	() 0.90	-	() 0.50	-	(=)	-	9
-	-	-	-	-	-	-	-	10
25.00	1891	20.77	1885	14.25	1891	8.00	1891	11
-	-	30.00	1888	19.50	1888	9.00	1888	12
-	-	-	-	-	-	-	-	13
-	-	(—) 9.23	-	(-) 5.25	-	() 1.00	-	14
-	-	-	-	-	-	_	-	15
24.00	1891	20.00	1883	15.00	1891	10.00	1883	16
22.00	1888	17.52	1886	12.00	1891	6.00	1886	17
-	-	-	-	-	-	-	-	18
(+) 2.00	-	(+) 2.48	-	(+) 3.00	-	(+) 4.00	-	19 20
-	-	-	-	_	-	_	-	20
16.00	1885	12.00	1891	7.50	1885	3.00	1891	21
30.00	1887	20.00	1888	12.00	1889	5.00	1888	22
3.78	1886	2.40	1878	1.80	1889	1.19	1875	23
() 14.00	-	(—) 8.00	-	() 4.50	-	() 2.00	-	24
(+) 12.22	-	(+) 9.60	-	(+) 5.70	-	(+) 1.81	-	25
18.00	1891	15.00	1891	12.00	1891	9.00	1891	26
18.00	1888	13.50	1880	9.50	1888	3.00	1889	27
-	-	4.80	1877	2.92	1885	1.21	1880	28
(=)	-	(+) 1.50	-	(+) 2.50	-	(+) 6.00	-	29
-	-	(+) 10.20	-	(+) 9.08	-	(-) 7.79	-	30
26.00	1885	21.00	1891	13.50	1883	7.00	1885	31
24.00	1885	18.00	1888	12.00	1888	6.00	1855	32
14.60	1883	13.50	1886	8.00	1882	2.74	1886	33
(+) 2.00	-	(+) 3.00		(+) 1.50	-	(+) 1.00	-	34
(+) 11.40	-	(+) 7.50	- 1	(十) 5.50	- 	(+) 4.26	-	35

			High	ı
	Branches of Occupations, States, and Countries.		Weekly Wages	Year
	Engineers (food preparations).			
1	Massachusetts,		\$30.00	1891
2	Other United States,		38.46	1888
3	Foreign Countries,		34.62	188
1	Other United States,		() 8.46	
5	MASSACHUSETTS Foreign Countries,	Ī	(-) 4.62	
•		•	, 1.02	
	Engineers (furniture).			
3	Massachusetts,	•	20.00	188
	Other United States,	. •	25.00	188
3	Foreign Countries,	•	-	
•	Other United States,		(—) 5.00	
)	MASSACHUSETTS Foreign Countries,		-	
	Electroses (closs)			
l	Engineers (glass).		15.00	189
	Massachusetts,	•	l i	
2	Other United States,	•	30.00	188
3	Foreign Countries,	•	9.60	188
ŀ	MASSACHUSETTS Countries.	•	(—) 15.00	
5	Foreign Countries,	•	(+) 5.40	
	Engineers (machines and machinery).		. !	
3	Massachusetts,		21.00	189
7	Other United States,		36.00	187
3	Foreign Countries,	_	28.85	188
9	Other United States,	•	() 15.00	
)	MASSACHUSETTS Foreign Countries,	•	(-) 7.85	
,) (Foreign Countries,	•	(-) 1.60	
	Engineers (metals and metallic goods).			
l	Massachusetts,	•	25.00	189
2	Other United States,		42.00	187
3	Foreign Countries,		14.40	185
ŀ	(Other United States,		(—) 17.00	
5	MASSACHUSETTS Coreign Countries,		(+) 10.60	
	Engravers (glass).		0,00	100
3	Massachusetts,	•	21.00	188
7	Other United States,	•	28.84	188
3	Foreign Countries,	•	9.60	188
•	MASSACHUSETTS Other United States,	•	() 7.84	
)	Foreign Countries,	•	(+) 11.40	
	Engravers (metals).			
L	Massachusetts,	_	28.00	189
2	·	•	30.00	188
	Other United States,	•	19.20	188
3	Foreign Countries,	•	,	100
ŧ	MASSACHUSETTS Other United States,	•	() 2.00 (+) 8.80	
5	Foreign Countries,			

	•	Low	Low	MEDIUM	×	MEDIU	Нісн	Мкріпи
_	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages
1	1885	\$8.08	1885	\$ 13.00	1885	\$20.00	1891	\$25.00
2	1888	6.00	1876	14.52	1888	23.00	1888	30.00
3	1880	5.16	1880	8.64	1878	15.00	1881	23.08
4	-	(+) 2.08	-	() 1.52	-	() 3.00	-	(-) 5.00
5	-	(+) 2.92	-	(+) 4.36	-	(+) 5.00	- '	(+) 1.92
6	1885	9.00	1891	12.00	1891	15.00	1891	18.00
7	1876	6.00	1890	10.50	1886	15.00	1886	19.98
8	-	! - i	-	-	-	¦ -	- '	- 1
9	-	(+) 3.00	-	(+) 1.50	-	(=)	-	() 1.98
10	-	-	- .	-	-	-	- !	-
11	1863	12.00	-	-	1880	13.50	- '	- 1
12	1855	6.00	1888	12.00	1880	18.00	1884	22.00
13	1881	4.20	1882	5.77	1882	6.59	-	- ;
14	-	(+) 6.00	-	-	-	() 4.50	- ;	- ;
15	-	(+) 7.80	-	-	-	(+) 6.91	-	- '
16	1885	6.00	1891	9.00	1883	13.50	1891	18.00
17	1869	3.84	1888	12.00	1879	19.80	1876	28.80
18	1883	4.87	1883	9.73	1880	17.31	-	- ,
19	-	(+) 2.16	-	(—) 3.00	-	(—) 6.30	- ,	() 10.80
20	-	(+) 1.13	-	() 0.73	-	() 3.81	- !	-
21	1885	7.50	1883	12.00	1883	16.50	1885	21.00
22	1880	5.22	1861	14.38	1876	23.46	1886	34.50
23	1863	3.36	1850	6.00	1886	8.70	1883	10.22
24	-	(+) 2.28	-	(—) 2.38	-	() 6.96	-	(—) 13.50
25	-	(+) 4.14	-	(+) 6.00	-	(+) 7.80		(+) 10.78
26	1863	12.00	1891	15.00	1879	16.50	1880	18.00
27	1888	9.00	1888	13.98	1876	19.50	1888	24.00
28	1885	4.60	-	-	1885	6.20	1883	8.40
29	-	(+) 3.00	-	(+) 1.02	-	() 3.00	-	() 6.00
30	-	(+) 7.40	-	-	-	(+) 10.30	-	(+) 9.60
31	1885	6.84	1885	10.50	1891	18.00	1885	23.07
32	1887	3.60	1888	10.00	1882	18.00	1888	24.00
33	1885	2.52	1883	6.33	1883	9.73	1889	14.40
34	-	(+) 3.24	- 1	(+) 0.50	- 1	(=)	-	(—) 0.93
35	-	(+) 4.32	- 1	(+) 4.17	-	(+) 8.27	-	(+) 8.67

	Da would on Order trans. On our	C				High	(
	BRANCHES OF OCCUPATIONS, STATES, AND	COUN	TRIKE	•		Weekly Wages	Year
	Engravers (wood).					l	
1	Massachusetts,					\$ 50.00	1883
2	Other United States,					60.00	1888
3	Foreign Countries,					19.00	1888
4	MASSACHUSETTS Other United States,					(-) 10.00	-
5	Foreign Countries, .					(+) 31.00	-
	Examiners (clothing).						
6	Massachusetts,					30.00	1891
7	Other United States,					35.00	1888
8	Foreign Countries,					-	_
9	Other United States,					(—) 5.00	_
10	MASSACHUSETTS Foreign Countries, .					` _	-
	Feeders (metals and metallic good	ia).					
11	Massachusetts	•			_	13.50	1886
12	Other United States,	-		•	•	18.00	1886
13	Foreign Countries,			•	•	_	-
14	Other United States,		-			() 4.50	_
15	MASSACHUSETTS Foreign Countries, .					-	_
10	Feeders (press).					15.00	1001
16 17	Massachusetts,	•	•	•	•	15.00	1891
18	Other United States,	•	•	•	•	20.00	1888
19	Foreign Countries,	•	•	•	•	8.00	1878
20	MASSACHUSETTS Countries	•	•	•	•	(-) 5.00	_
20	(Foreign Countries, .	•	•	•	•	(+) 7.00	_
	Filling carriers (cotton, woollen, a tiles).	nd (othe	r te	X -		
21	Massachusetts,					12.00	1891
22	Other United States,					11.28	1874
23	Foreign Countries,					-	-
24	MASSACHUSETTS Other United States,					(+) 0.72	-
25	Foreign Countries, .			•		-	-
	Finishers (bookbinding).						
26	Massachusetts,					26.00	1885
27	Other United States,					26.00	1888
28	Foreign Countries,					9.25	1883
29	(Other United States.					(=)	-
30	MASSACHUSETTS Foreign Countries, .	•				(+) 16.75	_
						, ===	
31	Finishers (boots and shoes).					20.00	1885
32	Massachusetts,	•	•	•	•	30.00 30.00	1888
32 33		•	•	•	•		
33 34	Foreign Countries,	•	•	•	•	7.68	1871
34 35	MASSACHUSETTS Other United States, Foreign Countries.	•	•	•	•	(=)	-
UU	r oreign Countries, .	•	•	•	•	(+) 22.32	-

-	,	Low	Low	MEDIUM	ж.	MEDIT	Нісн	MEDICH
 	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages
1 1	1885	\$6.00	1885	\$16.00	1885	\$27.00	_	_
2	1888	4.50	1888	18.00	1888	32.40	1883	\$46.00
; 3	1885	3.51	1888	7.35	1885	11.58	1888	15.00
4	_	(+) 1.50	-	() 2.00	-	(-) 5.40	_	- 1
5	-	(+) 2.49	-	(+) 8.65	-	(+) 15.42	-	- 1
6	1885	5.00	1885	11.70	1885	18.00	1891	25.00
† 7	1888	4.00	1888	12.00	1888	18.00	1888	30.00
, 8	_	-	- !	- '	-	_	- 1	-
9	-	(+) 1.00	- i	(- -) 0.30	-	(=)	-	(—) 5.00
10	-	-	-	-	-	-	-	-
11	1885	3.00	1885	4.50	1885	7.50	1885	9.00
12	1888	3.00	1883	6.78	1886	10.50	1886	14.16
13	-	-	-	· -	-	-	-	-
14	_	(=)	-	(—) 2.28	-	() 3.00	-	() 5.16
15	-	-	-	-	-	-	-	-
16	1891	3.00	1891	6.00	1891	9.00	1891	12.00
17	1888	3.00	1890	7.50	1888	12.00	1887	15.00
18	1883	1.09	1885	2.40	1885	3.86	-	_ 1
, 19	_	(=)	-	() 1.50	-	(-) 3.00	-	() 3.00
¦ 20	-	(+) 1.91	-	(+) 3.60	-	(+) 5.14	-	-
21	1883	3.30	1886	5.52	1891	7.50	1883	9.60
22	1886	3.00	1890	5.16	1874	7.20	1886	9.18
23	_	_	_	_	_	_	- 1	_ '
24	_	(+) 0.30	_	(+) 0.36	-	(+) 0.30	- '	(+) 0.42
25	-	-	- !	-	-	-	-	- ;
26	1885	3.00	1891	8.00	1885	14.00	1891	20.00
27	1888	5.00	1888	10.00	1888	15.00	1884	21.00
28	1886	6.81	-	_	1880	8.80	-	-
29	_	(—) 2.00	·	(—) 2.00	_	() 1.00	-	(-) 1.00
30	-	(—) 3.81	-	` - !	· -	(+) 5.20	-	-
31	1885	3.00	1891	10.00	1886	16.50	1883	23.50
32	1888	3.00		9.50	1873	16.50	1888	23.02
i 33	1880	2.88	1889	4.32	1883	6.00	1877	6.72
34	_	(=)		(+) 0.50	- '	(=)	_	(+) 0.48
35	_	(+) 0.12	-	(+) 5.68	- '	(+) 10.50	-	(+) 16.78

		High	1
	BRANCHES OF OCCUPATIONS, STATES, AND COUNTRIES.	Weekly Wages	Year
	Finishers (carriages and wagons).		
1	Massachusetts,	824.00	1875
2	Other United States,	. 31.98	1875
3	Foreign Countries,	7.92	1883
4	MASSACHUSETTS Countries.	() 7.98	-
5	MASSACHUSETTS Foreign Countries,	(+) 16.08	-
	Finishers (clocks, watches, and jewelry).		
6	Massachusetts,	. 21.00	1885
7	Other United States,	24.00	1874
8	Foreign Countries,	·	-
9	Other United States,	(—) 3.00	_
10	MASSACHUSETTS Foreign Countries,	. -	-
	Finishers (cooking, lighting, and heating appa-	•	
	ratus).	٠.	
11	Massachusetts,	18.00	1870
12	Other United States,	18.00	1872
13	Foreign Countries,	. -	-
14	MASSACHUSETTS Other United States,	(=)	-
15	Foreign Countries,	. -	-
	Finishers (cotton, woollen, and other textiles).		
16	Massachusetts,	30.00	1885
17	Other United States,	20.00	1888
18	Foreign Countries,	7.30	1883
19	Other United States,	(+) 10.00	-
20	MASSACHUSETTS Foreign Countries,	. (+) 22.70	-
	Finishers (furniture).	•	
21	Massachusetts	25.00	1883
22	Other United States,	21.00	1885
23	Foreign Countries,	. -	_
24	Other United States	+ 4.00	_
25	MASSACHUSETTS Foreign Countries,	. -	_
	Finishers (glass).		
26	Massachusetts,	21.00	1880
27	Other United States,	35.00	1844
28	Foreign Countries,	9.36	1857
29	Other United States,	(—) 14.00	1001
30	MASSACHUSETTS Foreign Countries,	(+) 11.64	_
-		(1) 22.02	_
	Finishers (hats).	90.00	1001
31	Massachusetts,	32.00	1891
32	Other United States,	30.00	1888
33	Foreign Countries,	9.73	1883
34	MASSACHUSETTS Other United States,	· (+) 2.00	_
35	Foreign Countries,	· (+) 22.27	-

MEDIUM	Нісн	MEDI	CM	MEDIUM	Low	Low	•	i
Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	
\$ 21.00	1880	\$18.00	1880	\$13.50	1877	\$ 9.00	1880	
25.98	1880	19.50	1888	12.96	1875	6.00	1891	2
7.44	1880	6.81	1883	_	-	2.04	1883	3
() 4.98	_	() 1.50	_	(+) 0.54	_	(+) 3.00	-	4
(+) 13.56	-	(+) 11.19	-	-	-	(+) 6.96	-	8
-	_	14.00	1891	9.00	1885	6.00	1891	6
19.00	1883	14.30	1888	12.00	1881	4.00	1888	7
-	-	-	-	-	-	-	-	8
-	-	() 0.30	-	() 3.00	-	(+) 2.00	-	١
-	-	-	-	-	-	-	-	10
16.50	1875	13.50	1878	10.50	1872	8.00	1891	11
14.76	1868	11.48	1879	7.50	1861	5.04	1857	12
-	-	1 - 1	-	-	-	-	_	13
(+) 1.74	-	(+) 2.02	-	(+) 3.00	- ;	(+) 2.96	_	14
-	-	-	-	-	-	-	-	18
24.00	1886	16.00	1891	9.00	1891	2.00	1891	16
15.00	1888	11.66	1884	7.20	1874	2.70	1888	17
5.76	1863	4.52	1873	3.06	1886	1.72	1878	18
(+) 9.00 (+) 18.24	-	(+) 4.34	-	(+) 1.80	-	(—) 0.70	-	18
(+) 10.24	-	(+) 11.48	-	(+) 5.94	-	(+) 0.28	-	20
20.00	1883	15.00	1891	10.00	1883	4.86	1885	21
16.50	1877	12.00	1890	7.88	1878	3.46	1878	22
-	_	- 1	_	_	-	_	_	23
(+) 3.50	-	(+) 3.00	-	(+) 2.12	_	(+) 1.40	-	. 24
-	-	-	-	-	-	-	-	28
18.00	1866	15.00	1863	12.00	1869	10.50	1880	26
27.24	1866	19.25	1879	12.00	1880	3.00	1880	27
7.92	1860	6.72	1877	-	-	0.96	1878	28
(-) 9.24	-	(—) 4.25	-	(=)	-	(+) 7.50	-	28
(+) 10.08	-	(+) 8.28	-	- :	-	(+) 9.54	-	30
26.00	1883	17.00	1883	10.85	1885	4.00	1885	· 31
24.00	1888	16.50	1885	9.81	1869	3.00	1888	1 35
8.10	1886	6.72		5.40	1884	3.65	1883	3
(+) 2.00	-	(+) 0.50	_	(+) 1.04	_	(+) 1.00	_	3
(+) 17.90	-	(+) 10.28	_	(+) 5.45	_	(+) 0.35	_	3

		Higi	ı
	BRANCHES OF OCCUPATIONS, STATES, AND COUNTRIES.	Weekly Wages	Year
	Finishers (leather).		
1	Massachusetts,	\$21.00	188
2	Other United States,	18.00	1886
3	Foreign Countries,	7.20	188
4	Other United States,	(+) 3.00	
5	MASSACHUSETTS Foreign Countries,	(+) 13.80	
	Finishers (metals and metallic goods).		
3	Massachusetts	22.50	188
7	Other United States.	36.00	188
3	Foreign Countries,	12.00	187
9	(Other United States,	() 13.50	
)	MASSACHUSETTS Foreign Countries,	(+) 10.50	
		(1)	
	Finishers (paper).	04.00	100
L	Massachusetts,	24.00	189
2	Other United States,	21.60	188
3	Foreign Countries,	6.30	186
ŀ	MASSACHUSETTS Other United States,	(+) 2.40	
5	(Foreign Countries,	(+) 17.70	
	Finishers (pianos and organs).		
;	Massachusetts,	24.00	188
•	Other United States,	40.00	188
3	Foreign Countries,	8.40	188
•	Other United States,	() 16.00	
)	MASSACHUSETTS Foreign Countries,	(+) 15.60	
	Firemen (cotton, woollen, and other textiles).	```	
	Massachusetts,	14.52	188
•		18.00	188
	Other United States,	9.73	188
, Į	Cother United States	(—) 3.48	100
j	MASSACHUSETTS Countries.	(+) 4.79	
,	, g-	(T) 1.13	
	Firemen (food preparations).		
3	Massachusetts,	15.00	189
•	Other United States,	18.00	188
3	Foreign Countries,	7.26	187
)	MASSACHUSETTS Other United States,	(—) 3.00	
)	Foreign Countries,	(+) 7.74	
	Firemen (gas and residual products).		
l	Massachusetts,	18.20	189
2	Other United States,	18.00	188
3	Foreign Countries,	10.89	188
	(Other United States,	(+) 0.20	-50
1	MASSACHUSETTS Connect Children States,	(1,70,20	

MEDIUM	Нісн	Medit	'M	MEDICH	Low	Low	,	
Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	
\$18.00	1891	\$13.00	1885	\$ 9.00	1891	\$ 5.00	1891	1
15.00	1888	11.37	1888	8.10	1884	4.80	1885	2
- 1	_	-	_	-	_	3.60	1883	3
(+) 3.00	_	(+) 1.63	_	(+) 0.90	_	(+) 0.20	-	4
-	-	-	-	-	-	(+) 1.40	-	5
18.00	1891	14.00	1883	10.50	1885	6.00	1891	6
27.00	1886	19.98	1886	12.00	1888	3.90	1888	7
9.60	1857	6.72	1850	4.20	1878	1.46	1883	8
() 9.00	-	(—) 5.98	-	(—) 1.50	-	(+) 2.10	-	9
(+) 8.40	-	(+) 7.28	-	(+) 6.30	-	(+) 4.54	-	10
19.50	1885	13.50	1880	8.40	1891	3.00	1860	11
16.80	1886	12.00	1888	7.50	1888	3.00	1888	12
-	-	4.08	1861	2.92	1885	1.92	1883	13
(+) 2.70	-	(+) 1.50	-	(+) 0.90	-	(=)	-	14
-	-	(+) 9.42	-	(+) 5.48	-	(+) 1.08	-	15
20.00	1885	15.55	1865	11.19	1877	7.00	1891	16
30.00	1888	23.20	1888	14.40	1837	6.00	1888	17
7.14	1874	6.07	1871	5.00	1868	3.57	1865	18
() 10.00	-	(—) 7.65	-	(—) 3.21	-	(+) 1.00	-	19
(+) 12.86	-	(+) 9.48	-	(+) 6.19	-	(+) 3.43	-	20
12.25	1891	10.20	1885	7.95	1885	5.70	1885	21
14.40	1886	10.98	1886	7.80	1877	3.90	1886	22
8.00	1883	5.76	1886	3.84	1885	2.04	1866	23
(-) 1.15	-	(—) 0.78	-	(+) 0.15	-	(+) 1.80	-	24
(+) 4.25	-	(+) 4.44	-	(+) 4.11	-	(+) 3.66	-	25
13.50	1891	11.00	1885	9.00	1891	7.50	1885	26
14.34	1890	11.04	1882	7.50	1888	4.50	1861	27
6.12	1883	5.52	1866	4.56	1877	3.84	1866	28
() 0.84	-	() 0.04	-	(+) 1.50	-	(+) 3.00	-	29
(+) 7.38	-	(+) 5.48	-	(+) 4.44	-	(+) 3.66	-	30
15.90	1885	12.00	1891	9.36	1885	7.20	1885	31
15.00	1888	12.00	1880	9.00	1864 .	6.00	1862	32
8.47	1880	6.72	1860	4.76	1850	3.00	1885	33
(+) 0.90	-	(=)	-	(+) 0.36	-	(+) 1.20	-	34
(+) 7.43	-	(+) 5.28	-	(+) 4.60	_	(+) 4.20	-	1 35

		High	ĸ
_	Branches of Occupations, States, and Countries.	Weekly Wages	Ye
	Firemen (liquors: malt, distilled, and fermented).		
	Massachusetts,	\$ 16.00	189
	Other United States,	23.07	188
i	Foreign Countries	5.96	188
	Other United States	(—) 7.07	
	MASSACHUSETTS Other United States,	(+) 10.04	
	Firemen (lumber).		
	Massachusetts	14.00	189
	Other United States,	27.00	189
	Foreign Countries,		
	Other United States.	(-) 13.00	
	MASSACHUSETTS Foreign Countries,	, , , , , , , ,	
	Firemen (metals and metallic goods).		
l	Massachusetts	15.00	188
	Other United States,	21.00	188
	Foreign Countries,	10.92	187
	MASSACHUSETTE S Other United States,	() 6.00	
	MASSACHUSETTS Foreign Countries,	(+) 4.08	
		()	
	Firemen (paper and paper goods). Massachusetts,	15.00	187
	Other United States,	15.00	188
	Foreign Countries,	6.90	188
	Magazure S Other United States,	(=)	
	MASSACHUSETTS Foreign Countries,	(+) 8.10	
	Fitters (boots and shoes).	(1) 3.20	
	Massachusetts	21.00	189
1	Other United States.	24.00	188
	T	3.60	188
	Foreign Countries,	() 3.00	100
	MASSACHUSETTS Other United States,	(+) 17.40	
	((1) 21120	
	Flangers (machines and machinery). Massachusetts,	_	
	Other United States	21.00	188
	The market of Court A.	8.00	187
	1 Otto 77 - 14 - 1 Ot 4	8.00	104
	MASSACHUSETTS Other United States,	_	
	·	_	
Ì	Flatteners (glass). Massachusetts,	36.00	188
	Other United States	55.86	186
	mark of the second	9.23	187
	Cother United States,	(—) 19.86	101
	> MIASSACHURETTS <		
1	Foreign Countries,	(+) 26.77	

MEDIUM	High	MEDI	UM	MEDIUM	Low	Low	,	
Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	
			1001	210.00	1000		1001	
-	****	\$12.00	1891 1887	\$10.00 11.40	1883 1888	\$7.50 7.50	1891 1883	1 2
\$20. 00	1888	15.00	1887	11.40	1900	2.70	1885	3
-	-	(-) 3.00	-	(-) 1.40	_		1000	4
-	-	(-) 8.00	_	(-)1.50	_	() (+) 4.80	_	5
-	-	_	_		-	(+) 2.00	_	"
13.00	1885	11.00	1891	9.00	1891	7.50	1891	6
_	_	15.00	1890	9.75	1885	4.32	1890	7
-	_	-	-	-	-	-	-	8
-	_	() 4.00	-	() 0.75	_	(+) 3.18	-	9
- 1	-	-	-	-	-	-	-	10
ĺ								
_		12.00	1891	10.00	1891	7.80	1885	11
15.00	1888	12.18	1877	7.92	1888	3.46	1889	12
_	_	6.12	1880	4.03	1885	2.00	1885	13
- !	_	() 0.18	_	(+) 2.08	_	(+) 4.34	-	14
-	-	(+) 5.88	_	(+) 5.97	-	(+) 5.80	_	15
13.00	1891	10.50	1879	8.22	1885	6.00	1885	16
12.00	1888	9.30	1865	6.48	1878	3.66	1877	17
-	_	5.76	1880	-	_	4.32	1866	18
(+) 1.00	_	(+) 1.20	_	(+) 1.74	_	(+) 2.34	-	19
-	_	(+) 4.74	_	-	-	(+) 1.68	-	20
		' '						
16.92	1886	12.00	1885	7.50	1891	3.00	1861	21
18.00	1888	13.50	1886	8.25	1885	3.00	1888	22
-	-	2.64	1866	1.68	1860	0.96	1866	23
() 1.08	-	(-) 1.50	-	(—) 0.75	-	(=)	-	24
-	-	(+) 9.36	-	(+) 5.82	-	(+) 2.04	-	25
i								
_	_	16.50	1885	_	' <u>-</u> '	_	_	26
17.50	1877	14.20	1878	10.80	1877	7.50	1883	27
_	_	'' <u>-</u>	_	_	-	7.20	1883	28
	-	(+) 2.30	_	_	- '	-	_	29
-	٠ ـ	'i -	_	-	- !	-	-	30
-	-	20.76	1885	16.10	1886	11.50	1878	31
44.40	1871	30.84	1888	18.42	1880	5.76	1888	32
7.79	1885	6.46	1882	5.50	1885	4.01	1882	33
-	-	() 10.08	-	(—) 2.32	- 1	(+) 5.74	-	34
_ '	_	(+) 14.30	-	(+) 10.60	-	(+) 7.49	_	35

						Hier	ī
	BRANCHES OF OCCUPATIONS, STATES, AND	Cov	NTRIE	s. 		Weekly Wages	Yea
	Folders (book).		•				
1	Massachusetts,					\$12.00	189
2	Other United States,					10.00	188
3	Foreign Countries,					4.63	188
4	(Other United States.					(+) 2.00	
5	MASSACHUSETTS Foreign Countries,					(+) 7.37	
•		•	•			() ,	
_	Folders (cloth).					15.00	100
6	Massachusetts,	•	•	•	•	15.00	189
7	Other United States,	•	•	•	•	15.00	188
В	Foreign Countries,	٠	•	٠	•	6.30	187
9	MASSACHUSETTS Other United States,	•	•	•	•	(=)	
0	Foreign Countries, .	•	•	•	•	(+) 8.70	
	Folders (paper).						
1	Massachusetts					11.00	189
2	Other United States,					9.00	186
3	Foreign Countries,	-				_	
4	(Other United States	Ĭ.		i		(+) 2.00	
5	MASSACHUSETTS Other United States, Foreign Countries,	•	•	•	•	(1)	
J	, (1010igii 001iiiii),	•	•	•	•		
	Foremen (agricultural implements).					
6	Massachusetts,	•	•	•	•	31.25	188
7	Other United States,	•	•	•	•	40.00	188
8	Foreign Countries,	•	•	•	•	-	
9	Other United States,			•	•	(—) 8.75	
0	MASSACHUSETTS Foreign Countries, .	•	•			-	
	Foremen (artisans' tools).						
1	Massachusetts,					38.46	187
2	Other United States,	•	•	•		30.00	187
		•	•	•		-	101
3	Foreign Countries,	•	•	•	•	(+) 8.46	
4	MASSACHUSETTS Communication	•	•	•	• •	(4) 6.40	
5	Foreign Countries, .	•	•	•	•	-	
	Foremen (boots and shoes).						
6	Massachusetts,					35.00	188
7	Other United States,					45.00	188
8	Foreign Countries,					14.40	188
9	(Other United States,					() 10.00	
0	MASSACHUSETTS Foreign Countries, .					(+) 20.60	
	Foremen (brick, tiles, and sewer	hrbe	y•			36.00	188
1	Massachusetts,	•	•	•	•		
2	Other United States,	•	•	•	•	34.14	188
3	Foreign Countries,	•	•	•	•		
4	MASSACHUSETTS Other United States,	•	•	•	•	(+) 1.86	
5	Foreign Countries, .					- 1	

į		Lòw	Low	Medicn	.m	MEDI	High	MEDIUM
<u> </u>	Year	Weekly Wages	Year	Weekly Wages	Year :	Weekly Wages	Year	Weekly Wages
1	1891	83.0 0	1891	\$ 5.25	1891	\$7.50	1891	\$9.00
2	1889	3.00	1888	5.00	1888	7.00	1888	9.00
3	1858	1.44	1860	2.16	1883	2.92	_	-
4	_	(=)	-	(+) 0.25	-	(+) 0.50	-	(=)
5	-	(+) 1.56	-	(+) 3.09	-	(+) 4.58	-	-
6	1885	3.78	1883	6.75	1886	9.60	1891	12.00
7	1880	3.00	1887	6.00	1880	9.00	1890	12.00
8	1886	0.96	1886	2.40	1886	3.50	1886	4.58
9	-	(+) 0.78	-	(+) 0.75	-	(+) 0.60	-	(=)
10	-	(+) 2.82	-	(+) 4.35	-	(+) 6.10	-	(+) 7.42
11	1861	3.00	1885	5.40	1876	7.00	1891	9.00
12	1888	3.00	1888	4.50	1880	6.00	1873	7.20
13	-	-	-	-	-	-	-	-
14	-	(=)	-	(+) 0.90	-	(+) 1.00	-	(+) 1.80
15	-	-	-	-	-	-	-	-
16	1840	10.50	1880	15.90	1891	21.00	1883	24.00
17	1886	13.50	1886	13.50	1880	21.60	1886	30.00
18 19	-	(\ 200	-	(1) 040	-		-	() 8 00
20	-	() 3.00	-	(+) 2.40	-	() 0.60	-	() 6.00
21	1885	12.00	1891	18.00	1885	24.00		_
22	1854	9.75	1880	14.50	1884	20.00	1884	25.00
23	1001	3.70	1000	11.00	1001	20.00	-	
24	_	(+) 2.25	_	(+) 3.50	_	(+) 4.00	_	_
25	-	-	-	-	-	-	-	-
26	1885	8.00	1886	15.00	1886	22.02	1891	27.00
27	1879	7.86	1878	17.31	1876	26.92	1871	34.62
28	1883	6.72	1883	8.40	1883	10.80	1883	13.20
29	-	(+) 0.14	-	(-) 2.31	-	() 4.90	-	(—) 7.62
30	-	(+) 1.28	-	(+) 6.60	-	(+) 11.22	-	(+) 13.80
31	1885	7.89	1891	13.50	1891	21.00	1891	25.00
32	1884	7.00	1884	14.00	1884	21.00	1865	29.00
33	-	-	- ;	-	1885	5.63	- 1	-
34	-	(+) 0.89	-	(—) 0.50	- 1	(-)	- !	() 4.00
35	-	-	-	-	- 1	(+) 15.37	-	-

		Hiei	•
	Branches of Occupations, States, and Countries.	Weekly Wages	Year
	Foremen (building).		
	Massachusetts,	\$30.0 0	1891
1	Other United States,	48.07	1888
2	Foreign Countries,	15.12	1877
3	Other United States.	() 18.07	_
4	MASSACHUSETTS Foreign Countries.	(+) 14.88	_
5	•	(1)	
	Foremen (carriages and wagons).	00.00	1001
6	Massachusetts,	30.00	1891
7	Other United States,	35.00	1880
8	Foreign Countries,	19.20	1880
9	MASSACHUSETTS Other United States,	(—) 5.00	_
10	Foreign Countries,	(+) 10.80	-
10	Foremen (clothing).		
	Massachusetts,	70.00	1891
11	Other United States	75.00	1884
12	Foreign Countries,	_	_
13	Other United States	(—) 5.00	_
14	MASSACHUSETTS Foreign Countries,		_
15		\	
	Foremen (cooking, lighting, and heating appara-		
16	tus).		
17	Massachusetts,	34.62	1875
18	Other United States,	57.69	1880
	Foreign Countries,	-	-
19	MASSACHUSETTS Other United States,	() 23.07	-
20	Foreign Countries,	-	-
	Foremen (food preparations).		
21	Massachusetts,	30.00	1891
2 2	Other United States,	50.00	1886
23	Foreign Countries,	14.40	1878
24	, ,	() 20.00	1070
25	MASSACHUSETTS Other United States, Foreign Countries,	(+) 15.60	_
		(+) 10.00	_
26	Foremen (furniture).		
	Massachusetts,	32.55	1877
27	Other United States,	46.15	1885
28	Foreign Countries,	-	_
29	Massacrus States,	(—) 13.60	-
30	MASSACHUSETTS Foreign Countries,	-	-
	Foremen (gas and residual products).		
31	1	26.00	1885
32	Massachusetts,	36.00	1874
33	,	30.00	1014
34	Foreign Countries,		_
35	MASSACHUSETTS Other United States,	(—) 10.00	-
	(Foreign Countries,	- !	

Medium	High	MEDII	JM	MEDIUM	Low	Low		T
Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	
\$ 23. 2 2	1891	\$18.00	1879	\$12.00	1885	\$6.00	1845	1
38.64	1888	28.02	1875	18.00	1889	8.31	1871	2
11.86	1877	8.64	1880	5.95	1882	2.16	1868	3
() 15.42	-	(—) 10.02	_	(-) 6.00	_	() 2.31	-	4
(+) 11.36	-	(+) 9.36	-	(+) 6.05	-	(+) 3.84	-	5
25.00	1891	20.00	1885	15.00	1879	10.00	1885	6
27.70	1879	22.00	1884	15.90	1882	9.00	1886	7
-	-	17.76	1880	-	-	12.00	1880	8
(—) 2.70		(—) 2.00	-	() 0.90	-	(+) 1.00	-	9
-	-	(+) 2.24	-	-	-	(—) 2.00	-	10
50.00	1891	37.50	1891	20.00	1891	5.00	1891	11
60.00	1880	40.00	1880	22.26	1890	4.50	1888	12
-	-	4.76	1888	-	-	-	-	13
(—) 10.00	-	(-) 2.50	-	() 2.26	-	(+) 0.50	-	14
-	-	(+) 32.74	-	-	-	-	-	15
22.22								16
28.85	1870	23.08	1869	17.31	1866	10.50	1885	17
46.15	1865	34.62	1877	23.08	1880	11.54	1879	18
() 17 90	-		-	-	-	-	-	19
(—) 17.30	-	() 11.54	-	(—) 5.77	-	(—) 1.04	-	20
-	-	-	-	-	-	_	-	
24.00	1883	17.31	1885	12.00	1891	6.00	1891	21
39.96	1890	29.94	1890	18.24	1888	6.50	1888	22
12.17	1883	9.73	1883	7.20	1883	5.76	1858	23
(—) 15.96	-	() 12.63	-	() 6.24	_	() 0.50	-	24
(+) 11.83	-	(+) 7.58	-	(+) 4.80	-	(+) 0.24	-	25
23.08	1873	20.00	1885	14.00	1883	6.00	1891	26
34.62	1879	25.77	1885	15.38	1878	6.00	1890	27
-	-	6.00	1877	_	-	-	-	28
() 11.54	-	(—) 5.77	-	(—) 1.38	-	(=)	-	29
-	-	(+) 14.00	-	-	-	-	-	30
24.00	1885	19.50	1885	16.00	1880	12.00	1891	31
30.00	1888	25.02	1874	18.00	1879	11.52	1874	32
- ;	-	7.80	1866	-	-	-	_	33
(—) 6.00	-	() 5.52	-	(-) 2.00	-	(+) 0.48	-	34
		(+) 11.70	-	- 1	-	-	-	35

		Higi	ī
	Branches of Occupations, States, and Countries.	Weekly Wages	Yea
	Foremen (machines and machinery).		
1	Massachusetts	\$50.0 0	188
2	Other United States,	50.00	1886
3	Foreign Countries,	14.52	1880
4	Other United States,	(=)	
5	MASSACHUSETTS Foreign Countries,	(+) 35.48	
•		(1) 00.10	
	Foremen (metals and metallic goods).		
3	Massachusetts,	40.00	189
7	Other United States,	77.00	188
3	Foreign Countries,	19.98	188
•	Other United States,	() 37.00	
)	MASSACHUSETTS Foreign Countries,	(+) 20.02	
		, , ,	
	Foremen (paper and paper goods).	20.00	• • • •
l	Massachusetts,	60.00	188
2	Other United States,	60.00	186
3	Foreign Countries,	17.14	189
ŀ	MASSACHUSETTS Other United States,	(=)	
5	Foreign Countries,	(+) 42.86	
	Foremen (printing, publishing, and bookbinding).		
;		60.00	188
,	Massachusetts,	50.00	188
	·	12.30	
3	Foreign Countries,		188
•	MASSACHUSETTS Other United States,	(+) 10.00	•
)	Foreign Countries,	(+) 47.70	•
	Foremen (railroad construction and equipment).		
	Massachusetts	24.00	188
	Other United States,	36.00	188
	Foreign Countries,	11.00	
į	(Other United States,	() 12.00	
,	MASSACHUSETTS (Other United States,	(+) 13.00	
•	, (Foreign Countries,	(+) 10.00	
	Foremen (wooden goods).		
;	Massachusetts,	30.00	189
•	Other United States,	30.00	188
3	Foreign Countries,	-	
)	Other United States,	(=)	
)	MASSACHUSETTS Foreign Countries,	`_ ′	
	Forgers (metals).		
l	Massachusetts,	30.00	188
•	Other United States,	36.00	188
3	Foreign Countries,	29.20	188
	Other United States,	(—) 6.00	
Ŀ	MASSACHUSETTS Connect States,	() 0.00	

MEDIUM	Пісн	MEDI	UM	Минги	Low	Low		T
Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	
\$40.0 0	1891	\$30.00	1885	\$21.00	1864	\$12.00	1860	1
40.00	1886	30.00	1891	20.16	1878	10.38	1880	2
-	-	11.61	1880	9.00	1882	7.14	1885	3
()	-	(=)	-	(+) 0.84	-	(+) 1.62	_	4
-	-	(+) 18.39	-	(+) 12.00	-	(+) 4.86	-	5
34.00	1891	24.00	1883	16.50	1891	10.50	1850	6
-	-	52.00	1888	32.70	1880	12.00	1886	¹ 7
16.21	1885	12.72	1883	9.12	1858	6.00	1886	. 8
	-	() 28.00	-	() 16.20	-	() 1.50	-	9
(+) 17.79	-	(+) 11.28	-	(+) 7.38	-	(+) 4.50	-	10
48.00	1873	35.00	1891	21.00	1880	7.20	1885	11
48.00	1880	34.62	1879	21.00	1879	9.00	1851	12
14.28	1890	10.71	1885	7.20	1863	4.80	1863	13
(=)	-	(+) 0.38	-	(=)	-	() 1.80	-	14
(+) 33.72	-	(+) 24.29	-	(+) 13.80	-	(+) 2.40	-	15
45.00	1885	33.00	1885	20.00	1885	6.00	1885	16
40.00	1888	30.57	1883	21.15	1883	11.62	1878	17
10.08	1863	8.00	1885	6.27	1884	4.05	1884	18
(+) 5.00	-	(+) 2.43	-	(—) 1.15	-	() 5.62	-	19
(+) 34.92	-	(+) 25.00	-	(+) 13.73	-	(+) 1.95	-	20
21.00	1885	18.00	1885	15.00	1891	12.00	1891	21
30.00	1883	24.00	1888	18.00	1877	12.96	1886	22
-	-	-	-	- 1	-	7.00	1885	23
() 9.00	-	(-) 6.00	-	(-) 3.00	-	() 0.96	-	24
-	-	-	-	-	-	(+) 5.00	-	25
24.00	1891	20.00	1891	16.50	1891	12.00	1891	26
25.00	1884	21.00	1884	16.20	1890	11.82	1890	27
- ;	-	-	-	-	-	-	-	28
(-) 1.00	-	() 1.00	-	(+) 0.30	-	(+) 0.18	-	29
<u>-</u> '	-	-	-	-	-	-	-	30
24.00	1885	18.00	1880	12.00	1891	7.50	1860	31
30.00	1888	21.00	1888	13.50	1888	6.63	1876	32
24.33	1883	14.88	1866	8.40	1873	1.68	1866	33
() 6.00	-	() 3.00	-	() 1.50	-	(+) 0.87	-	34
(—) 0.33	-	(+) 3.12	-	(+) 3.60	-	(+) 5.82	-	35
		<u>' </u>				<u></u>		<u>'—</u>

ĺ		Higi	f
	Branches of Occupations, States, and Countries.	Weekly Wages	Yes
	Founders (metals).		
1	Massachusetts,	\$ 18.00	189
1	Other United States	48.12	18
ı	Foreign Countries,	9.73	18
j	Other United States.	(—) 30.12	
İ	MASSACHUSETTS Foreign Countries,	(+) 8.27	
	Frame tenders (cotton, woollen, and other textiles).		
١	Massachusetts,	12.00	189
ļ	Other United States,	12.00	188
1	Foreign Countries,	5.28	180
-	Other United States,	(=)	
1	MASSACHUSETTS Foreign Countries,	(+) 6.72	
	Fullers (woollen goods).		
l	Massachusetts,	21.50	18
١	Other United States,	21.00	18
i	Foreign Countries,	9.68	18
	MASSACHUSETTS Other United States,	(+) 0.50	
١	Foreign Countries,	(+) 11.82	
1	Furnacemen.		
	Massachusetts,	30.00	189
1	Other United States,	21.00	18
	Foreign Countries,	18.24	18
ĺ	MASSACHUSETTS Other United States,	(+) 9.00	
	Foreign Countries,	(+) 11.76	
l	Furniture workers.		
	Massachusetts,	35.00	18
Ì	Other United States,	38.75	18
	Foreign Countries,	6.96	18
1	MASSACHUSETTS Other United States,	(—) 3.75	
İ	Foreign Countries,	(+) 28.04	
1	Furriers.		
1	Massachusetts,	30.00	18
1	Other United States,	36.00	18
1	Foreign Countries,	14.00	18
	MASSACHUSETTS Other United States,	() 6.00	
	Foreign Countries,	(+) 16.00	
i	Gaffers (glass).		
í	Massachusetts,	36.00	189
1	Other United States,	36.00	188
1	Foreign Countries,	-	
	MASSACHUSETTS Other United States,	()	
į	Foreign Countries,	-	

MEDIUM	Нісн	MEDII	DM.	MEDIUM	Low	Lov	7	
Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	
\$ 15.00	1885	\$10.50	1838	\$7.5 0	1860	\$6.00	1845	١.
38.46	1878	26.64	1879	15.00	1888	4.50	1882	1 2
7.50	1886	5.28	1877	3.21	1870	1.06	1865	3
() 23.46	-	(-) 16.14	1011	() 7.50	1010	(+) 1.50	1000	4
(+) 7.50	-	(+) 5.22	_	(+) 4.29		(+) 4.94	_	5
(1)		(1) 0.22		(() 1.20		(17) 2.02		"
10.00	1891	9.00	1885	6.00	1886	3.00	1891	6
9.00	1883	7.00	1885	4.50	1887	2.00	1884	7
4.46	1877	3.60	1883	2.80	1874	1.86	1886	8
(+) 1.00	-	(+) 2.00	-	(+) 1.50	_	(+) 1.00	_	9
(+) 5.54	-	(+) 5.40	-	(+) 3.20	-	(+) 1.14	-	10
		10.70	1001					
16.50	1071	13.70	1891	9.00	1886	4.86	1852	11
7.20	1871 1886	12.00	1886	8.00	1880	4.50	1864	12
7.20	1000	6.00	1883	4.00	1885	2.34	1870	13
_	-	(+) 1.70	-	(+) 1.00	-	(+) 0.36	-	14
-	-	(+) 7.70	-	(+) 5.00	-	(+) 2 52	-	15
- 1	-	18.00	1891	13.50	1883	9.00	1883	16
16.50	1888	12.00	1888	7.50	1886	3.00	1879	17
14.59	1870	10.20	1890	6.00	1866	2.34	1885	18
- 1	-	(+) 6.00	-	(+) 6.00	-	(+) 6.00	-	19
- !	-	(+) 7.80	-	(+) 7.50	-	(+) 6.66	-	20
30.0 0	1883	20.19	1875	10.05	1860	3.00	1883	21
30.00	1884	21.00	1886	12.00	1889	3.00	1887	22
5.47	1873	4.52	1874	2.40	1884	1.36	1878	23
(=)	_	(—) 0.81	_	(—) 1.95	_	(=)	_	24
(+) 24.53	-	(+) 15.67	-	(+) 7.65	-	(+) 1.64	-	25
		20.00	1885	13.00	1885	9.00	1885	26
_	-	20.00	1888	11.64	1890	3.00	1888	
_	-	7.53	1886	11.04	1990			27 28
_	-	' ' '	1000	(1) 196	_	1.42	1873	28
-	_	(-) (+) 12.47	-	(+) 1.36	_	(+) 6.00 (+) 7.58	_	30
i		!						
30.00	1885	24.10	1855	19.38	1845	14.10	1830	31
30.00	1885	24.00	1888	18.00	1886	12.00	1886	32
- ;	-	ii -	-	<u> </u>	-	_	-	33
(=)	-	(+) 0.10	-	(+) 1.38	_	(+) 2.10	-	34
-	-	-	-	i - I	-	-	-	35
		11		<u> </u>				

		High	•
_	Branches of Occupations, States, and Countries.	Weekly Wages	Year
	Galvanizers.		
l	Massachusetts,	\$16.50	189
2	Other United States.	19.50	189
3	Foreign Countries,	19.46	188
Ĺ	Other United States.	(—) 3.00	
j	MASSACHUSETTS Foreign Countries,	() 2.96	
	Gas makers.	İ	
5	Massachusetts,	18.00	189
,	Other United States,	21.00	187
3	Foreign Countries,	10.16	188
•	MASSACHUSETTS Other United States,	(-) 3.00	
)	Foreign Countries,	(+) 7.84	
	Gatherers (glass).		
l	Massachusetts,	15.00	188
2	Other United States,	36.00	188
3	Foreign Countries,	7.79	188
Ŀ	MASSACHUSETTS Other United States,	(-) 21.00	•
j	Foreign Countries,	(+) 7.21	
	Giggers (woollen goods).		
3	Massachusetts,	15.30	188
7	Other United States,	14.40	188
3	Foreign Countries,	5.30	188
9	MASSACHUSETTS Other United States,	(+) 0.90	
)	Foreign Countries,	(+) 10.00	
	Gilders (picture frames).		
l	Massachusetts,	18.00	189
2	Other United States,	33.00	188
3	Foreign Countries,	-	
ŧ	MASSACHUSETTS Other United States,	() 15.00	
5	Foreign Countries,	-	•
	Glass workers.		ı
6	Massachusetts,	21.00	187
7	Other United States,	27.00	188
3	Foreign Countries,	9.65	188
9	MASSACHUSETTS Other United States,	() 6.00	
)	Foreign Countries,	(+) 11.35	
	Glaziers.		
L	Massachusetts,	24.00	189
2	Other United States,	30.00	188
3	Foreign Countries,	13.44	187
4	MASSACHUSETTS Other United States,	(—) 6.00	
5	Foreign Countries,	(+) 10.56	

		Low	Low	MEDIUM	×	MEDIC	Нісн	Medica
	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages
i . 1	1891	\$ 6.00	1885	\$8.00	1885	, ! 	1891	\$13.50
i 2	1887	6.00	1888	9.00	1891	12.00	1886	15.72
3	1849	6.00	1883	9.73	1870	12.17	1878	14.40
4	_	(=)	-	() 1.00	-	() 1.00	-	() 2.22
5	-	(=)	-	() 1.73	-	() 1.17	-	() 0.90
. 6	1885	6.00	1885	8.40	1885	10.50	1891	15.00
; 7	1886	6.90	1888	9.42	1877	14.00	1877	18.00
8	1857	2.88	1860	4.32	1871	6.48	1874	8.40
, 9	-	(—) 0.90	-	() 1.02	-	() 3.50	-	() 3.00
10 	-	(+) 3.12	-	(+) 4.08	-	(+) 4.02	-	(+) 6.60
11	1863	6.00	1859	9.00	1869	12.00	_	-
12	1880	3.30	1876	11.52	1883	19.50	1888	27.00
13	1878	5.04	-	-	-	· -	-	-
1 14	-	(+) 2.70	-	() 2.52	-	(—) 7.50	-	-
15	-	(+) 0.96	-	-	-	-	-	-
16	1858	4.50	1879	6.75	1891	9.00	1885	11.25
17	1890	3.78	1888	6.00	1888	9.00	1880	12.00
18	1883	3.84	-	-	-	-	-	- \ \ -
19	-	(+) 0.72	-	(+) 0.75	-	(-)	-	() 0.75
20	-	(+) 0.6 6	-	-	-	-	-	-
21	1885	6.00	1891	8.00	1891	12.00	1891	15.00
22	1888	3.00	1885	11.00	1888	18.00	1883	24.00
23	-	! -	-	-	1885	6.90	-	-
24	-	(+) 3.00	' -	() 3.00	-	(-) 6.00	-	() 9.00
25	-	-	-	-	-	(+) 5.10	-	-
26	1872	3.56	1875	7.50	1891	12.00	1891	15.00
27	1886	3.00	1888	9.00	1889	15.00	1885	20.00
28	1885	3.00	1878	1 100	1885	6.00	1885	7.14
29	-	(+) 0.56	-	() 1.50	- 1	() 3.00	-	() 5.00
; 30	-	(+) 0.56	-	(+) 3.00	-	(+) 6.00	-	(+) 7.86
31	1885	9.00	1885	12.00	1885	18.00	1885	21.00
32	1877	5.00	1884	10.00	1888	18.00	1885	24.00
33	1878	2.10	1883	4.80	1883	7.60	1878	10.50
! 34	-	(+) 4.00	-	(+) 2.00	- !	(=)	-	(-) 3.00
35	_	(+) 6.90	_ -	(+) 7.20	-	(+) 10.40	-	(+) 10.50

		Hici	ī
	Branches of Occupations, States, and Countries.	Weekly Wages	Year
	Glue makers.		
1	Massachusetts,	\$16.38	1875
2	Other United States,	21.00	1875
3	Foreign Countries,	5.80	1885
4	Other United States.	() 4.62	-
5	MASSACHUSETTS Foreign Countries,	(+) 10.58	-
	Gold beaters.		
6	Massachusetts,	20.00	1891
7	Other United States,	24.00	1887
8	Foreign Countries,	4.80	1884
9	Other United States,	() 4.00	_
0	MASSACHUSETTS Foreign Countries,	(+) 15.20	
	Grinders (castings).		
1	Massachusetts,	10.50	1888
2	Other United States,	15.00	1888
3	Foreign Countries,	12.00	1874
4	Other United States,	(—) 4.50	-
5	MASSACHUSETTS (Foreign Countries,	(—) 1.50	_
	Grinders (tools and implements).	!	
16	Massachusetts,	33.00	1891
7	Other United States,	35.00	1862
8	Foreign Countries,	33.60	1810
9	Other United States,	() 2.00	_
0:	MASSACHUSETTS Foreign Countries,	(-) 0.60	-
	Gunsmiths.		
21	Massachusetts,	21.00	1888
2	Other United States,	30.00	1888
3	Foreign Countries,	7.20	1858
4	Other United States,	(-) 9.00	-
25	MASSACHUSETTS Foreign Countries,	(+) 13.80	_

To illustrate the use of the table, we will consider in detail the quotations and comparisons for "Dyers" on page 270. We find that in 1885, \$46.19 was the highest weekly wage paid in the State of Massachusetts. In 1888 in Other United States \$36 was the highest weekly wage paid. In Foreign Countries in 1883 the high quotation was \$19.46. Considering the comparative portion of the table we find that Massachusetts paid more by \$10.19 than Other United States, and \$26.73 more than Foreign Countries. A similar method of consideration

		Low	Low	MEDIUM	DK.	Madic	Нісн	MEDIUM
	Year	Weckly Wages	Year	Weekly Wages	Year	Weekly Wages	Year	Weekly Wages
,	1891	\$6.00	1891	\$7.5 0	1885	\$ 11.25	1891	\$ 15.00
:	1881	4.50	1886	9.00	1884	13.85	1875	18.00
:	1884	0.96	-	-	1884	2.40	1885	4.63
1	_	(+) 1.50	- 1	() 1.50	-	() 2.60	- !	(—) 3.00
1	-	(+) 5.04	-		-	(+) 8.85	-	(+) 10.37
	1885	8.00	-	-	1885	14.00	1891	17.00
1	1883	6.00	1887	11.00	1888	16.50	1871	21.00
1	1884	2.40	- !	-	-	-	- !	-
; 1	-	(+) 2.00	-	-	-	() 2.50	-	() 4.00
10	-	(+) 5.60	-	-	-			-
1	1863	7.50	- !	-	1891	9.00	-	-
1:	1891	3.30	1891	6.00	1888	9.00	1891	12.00
13	1868	4.80	1885	6.48	1883	8.88	1857	10.08
1	-	(+) 4.20	-	-	-	(=)	-	-
1:	-	(+) 2.70	- :	-	-	(+) 0.12	-	-
10	1885	4.98	1883	15.12	1891	25.00	_ ;	-
1	1886	3.90	1886	12.00	1888	19.50	1885	30.00
1	1885	8.65	1883	8.40	1879	13.38	1833	24.00
1	-	(+) 1.08	- '	(+) 3.12	- !	(+) 5.50	-	-
2	-	(+) 1.33	-	(+) 6.72	- i	(+) 11.62	-	
2	1885	7.50	1885	12.00	1885	15.00	1885	16.20
. 2	1888	6.00	1888	12.00	1886	18.00	1885	24.00
2	1878	2.25	1878	3.69	1884	4.80	1878	6.00
2	-	(+) 1.50	-	(=)	-	(—) 3.00	-	(—) 7.80
2	-	(+) 5.25	-	(+) 8.31	-	(+) 10.20	-	(+) 10.20

may be applied to the quotations for the other four grades. It will be seen, however, that the pay per week of Dyers in Massachusetts was more, in every one of the grades considered, than it was in other States of the Union, or in Foreign Countries.

Similar comparisons for each of the 99 branches of occupations presented may be drawn from the table.

We next present a series of five tables showing in which States of the Union and in which foreign countries, the highest High, the highest Medium High, the highest Medium, the highest Medium Low, and the highest Low weekly wages were paid, (based upon the extended table of comparisons, pages 266 to 295), crediting each state or country with the number of occupations in which the highest wage in each grade was paid. Then, considering 99 branches of occupations as 100 per cent, percentages corresponding to the number of branches of occupations are also given. In those cases, where, in any grade, two or more states or countries paid the same wage, each of the states or countries has been credited with its fractional proportion — one-half, one-third, etc., as the case may have been. This matter is more fully illustrated in the analysis of each of the five tables which follow:

High.

	8:	rat ks	AND	Coun	TRIES.					Branches of Occupations	Percentage
		Un	ited	State	8.					99.00	100.00
California, .					•					4.33	4.37
Connecticut,									•	3.00	3.03
Georgia, .									.•	0.50	0.51
Illinois, .										1.00	1.01
Indiana, .							•			1.00	1.01
Kentucky, .										2.00	2.02
Maine, .										0.33	0.33
Massachusetts,										28.50	28.79
Michigan, .		•								3.33	3.36
Missouri, .										2.33	2.35
New Hampshire	Э,									1.00	1.01
New Jersey,									•	11.33	11.45
New York,										25.67	25.93
Ohio,										9.84	9.94
Pennsylvania,	•	•	•	•	•	•	•	•	•	4.84	4.89
		A	GRE	GATE	s.					99.00	100.00
United States,										99.00	100.00

In the comparisons as regards highest "High" weekly wages paid, no foreign country appears, as the high wages paid in the States were always in excess of high wages paid in foreign countries, all the branches (99) of occupations being considered. Massachusetts leads with 28.50 occupations, or 28.79

per cent, while New York comes second with 25.67 occupations, or 25.93 per cent. The "half occupation" credited to Massachusetts indicates that, in some branch of occupation, Massachusetts and another State paid the same high wage. The other fractions of occupations indicate similar equalities between three or more States, each State being credited with its proper fractional representation. In the presentation of 103 occupations in the Report for 1895 Massachusetts also led with 37 occupations (35.93 per cent), while New York was also second with 28.50 occupations (27.67 per cent).

* Medium High.

	8	TATES	AND	Coun	TRIKS	•				Branches of Occupations	Percentages 98.99	
		l's	uited	State	s.					98.00		
California, .										5.33	5.38	
Colorado, .										1.00	1.01	
Connecticut,										3.42	3.45	
Illinois, .										1.75	1.77	
Indiana, .										3.00	3.03	
Kentucky, .										0.50	0.51	
Massachusetts,										29.00	29.29	
Michigan, .										3.67	3.71	
Missouri, .										8.00	8.08	
New Jersey,										6.16	6.22	
New York,										16.42	16.59	
Ohio,										12.50	12.63	
Oregon, .										1.00	1.01	
Pennsylvania,										6.00	6.06	
Tennessee, .	•	•		•			•		•	0.25	0.25	
		No	Com	paris	on.					1.00	1.01	
No comparison	, .	•	•	•	•	•	•	•	•	1.00	1.01	
		Ac	GGRE	GATE	9.					. 99.00	100.00	
United States,										98.00	98.99	
No comparison	, .									1.00	1.01	

^{*} Relates to highest " Medium High."

The foreign countries secure no representation in this grade, nor did they in the 103 occupations considered in the 1895 report. In one occupation (1.01 per cent) no comparison could be made. Massachusetts again leads with 29 occupations, or 29.29 per cent, New York is again second with 16.42 occupations or

16.59 per cent, while Ohio comes third with 12.50 occupations, or 12.63 per cent. In the same grade in 1895 (103 occupations) Massachusetts led with 29.50 occupations (28.65 per cent), while New York was second with 25.50 occupations (24.77 per cent).

The next table contains the comparisons for highest Medium weekly wages.

Medium.

	8	TATES	AND	Coun	TRIES	•				Branches of Occupations	Percentage
		Ui	rited	State	:8.					98.00	98.99
California, .										3.90	3.94
Connecticut,										1.79	1.81
Illinois, .			•		:					2.46	2.48
Indiana, .										5.08	5.13
Iowa,										0.09	0.09
Kansas, .										0.33	0.33
Kentucky,.										0.29	0.29
Maine, .										0.53	0.54
Massachusetts,										33.31	33.65
Michigan, .										1.87	1.89
Missouri, .										3.84	3.88
										1.00	1.01
New Hampshire	÷,									0.33	0.33
New Jersey,										2.65	2.68
New York,										19.94	20.14
Ohio,										8.41	8.50
Pennsylvania,										7.78	7.86
West Virginia,			٠.							1.20	1.21
Wisconsin,							•			2.00	2.02
United States (n	ot	speci	fled)	, .	•	•	•	•	•	1.20	1.21
		Fore	ign (Count	ries.					1.00	1.01
Great Britain,	•	•	•	•	•	•	•	•	•	1.00	1.01
		A	GRE	GATE	8.					99.00	100.00
United States,			•							98.00	98.99
Foreign Countri	es,									1.00	1.01

Great Britain secures a representation in this comparison being credited with one occupation, or 1.01 per cent. For the third time Massachusetts leads, this time with 33.31 occupations, or 33.65 per cent, while for the third time New York is second, but with a greatly reduced credit, comprising 19.94

occupations, or 20.14 per cent. In 1895 (103 occupations) Massachusetts led, in this grade, with 25.50 occupations (24.77 per cent), while New York was second with 14 occupations (13.59 per cent).

* Medium Low.

	St	TATES		Branches of Occupations	Percentages							
		Un	ited	State	8.					98.00	98.99	
California, .										0.53	0.54	
Colorado, .						•				1.00	1.01	
Connecticut,										2.03	2.05	
Delaware, .								•		1.17	148	
Georgia, .										0.44	0.44	
Illinois, .										2.84	2.87	
Indiana, .										0.67	0.68	
lowa,										0.14	0.14	
Kansas, .							٠.			0.38	0.38	
Kentucky,.										0.11	0.11	
Maine, .										2.50	2.52	
Maryland, .										1.00	1.01	
Massachusetts,			•							42.37	42.80	
Michigan, .										2.55	2.58	
Minnesota,.										1.00	1.01	
Missouri, .										1.30	1.31	
New Hampshir	e,									1.00	1.01	
New Jersey,										. 5.99	6.06	
New York,										15.48	15.64	
Ohio,										7.25	7.32	
Pennsylvania,										5.66	5.72	
Virginia, .										0.11	0.11	
West Virginia,										0.20	0.20	
Wisconsin,			•		•			•		2.28	2.30	
		Fore	ign (Count	ries.					1.00	1.01	
England, .										0.50	0.505	
Great Britain,	•	•	•	•	•	•	•	•	•	0.50	0.505	
		A	GORE	GATE	в.					99.00	100.00	
United States,	•		•	•		•				98.00	98.99	
Foreign Countr	ies,									1.00	1.01	

^{*} Relates to highest "Medium Low."

In this grade, England paid the same weekly wage in one occupation as did some State of the Union, thus securing a credit of "one-half." This statement also applies to Great Britain on one other occupation, the total credit for all Foreign

Countries being, therefore, one occupation, leaving the United States at the head in 98 occupations.

Massachusetts takes a still more pronounced lead with 42.37 occupations, or 42.80 per cent. New York holds second place but with a further reduced proportion, it being but 15.48 occupations, or 15.64 per cent. In 1895 (103 occupations) Massa-

LOW.

	s	TATES	AND	Coun	TRIES	•			Branches of Occupations	Percentages
		96.66	97.64							
Alabama, .									0.20	0.20
California, .									1.11	1.12
Connecticut,									1.20	1.21
Georgia, .									0.20	0.20
Indiana, .									1.11	1.12
Kansas, .									0.31	0.32
Massachusetts,									72.05	72.78
Michigan, .									1.84	1.86
Missouri, .									0.20	0.20
New Hampshir	e,								0.20	0.20
New Jersey,									1.71	1.73
New York,									8.18	8.27

In this grade England secures representation to the extent of 1.34 occupations, or 1.35 per cent, and Scotland one occupation, or 1.01 per cent. This leaves 96.66 occupations, or 97.64 per cent, to the credit of the United States. Massachusetts has a most pronounced lead — 72.05 occupations, or 72.78 per cent. This means 74.54 per cent of the United States credit is due to Massachusetts. There is no state with high

				Нісн								
		8	TATES	AND	Coun	TRIES	•				Branches of Occupations	Percentages
1			Un	ited	State	s.		_			99.00	
2	Alabama, .										-	-
3 ˈ	California, .								•		4.33	4.37
4	Colorado, .										-	-
5	Connecticut,										3.00	3.03
3	Delaware, .										-	-

chusetts was first with 28.50 occupations (27.67 per cent), and New York second with 16 occupations (15.53 per cent).

The final comparative table relates to highest Low weekly wages, the highest low weekly wage paid in each state or foreign country (based upon the table of comparisons, before referred to) being used.

Low - Concluded.

	ST	ATKS	AND	Coun	TRIES					Branches of Occupations	Percentages	
United States Con.												
North Carolina,										0.34	0.34	
Ohio,										2.14	2.16	
Pennsylvania, .										3.56	3.60	
Rhode Island, .										0.11	0.11	
Vermont,					٠.					2.00	2.02	
Virginia,										0.20	0.20	
	1	Fore	ign (Count	ries.					2.34	2.36	
England,			٠.							1.34	1.35	
Scotland,										1.00	1.01	
		Λc	GRE	GATE	8.					99.00	100.00	
United States,										96.66	97.64	
Foreign Countrie	8,									2.34	2.36	

enough credit to be considered as second. New York, however, comes next with 8.18 occupations, or 8.27 per cent.

To allow of comparisons being easily made between the five grades for each state and country, the five grade tables are consolidated in one presentation which follows, in which the figures for the leading state, and the next in rank, in each grade, are printed in full face type.

MEDIUM	HIGH	MED	IU M	MEDIUM	LOW	Low		
Branches of Occupations	Percent-	Branches of Occupations	Percent-	Branches of Occupations	Percent-	Branches of Occupations	Percent- ages	
98.00	98.99	98.00	98.99	98.00	98.99	96.66	97.64	
-	-	-	_	-	-	0.20	0.20	
5 .3 3	5.38	3.90	3.94	0.53	0.54	1.11	1.12	
1.00	1.01	-	-	1.00	1.01	-	-	
3.42	3.45	1.79	1.81	2.03	2.05	1.20	1.21	
- 1	-	-	-	1.17	1.18	-	-	

					٠						Нісн		
		8T	ATKS	AND	Coun	TRIKS.					Branches of Occupations	l'ercentage:	
!		Un	ited	Stat	es —	Con.							
1	Georgia, .	•									0.50	0.51	
2	Illinois, .				•	•					1.00	1.01	
3	Indiana, .	•	•								1.00	1.01	
4	Iowa,			•		•			•		_	-	
5	Kansas, .		•								-	-	
6	Kentucky,.			•			•	•	•		2.00	2.02	
7	Maine, .					•					0.33	0.33	
8	Maryland,.					•	•		•	•	_	-	
9	Massachusetts,		•							•	28.50	28.79	
10	Michigan, .		•								3.33	3.36	
1	Minnesota,				•			•	•		-	-	
12	Missouri, .	•	•	•		•		•	•		2.33	2.35	
13	Nebraska, .						•	•		•	_	-	
14	New Hampshire	Э,						•			1.00	1.01	
5	New Jersey,			•		•	•	•	•		11.33	11.45	
16	New York,	•			•	•				•	25.67	25.93	
17	North Carolina,				•	•			•		'-	_	
18	Ohio,				•		•			•	9.84	9.94	
9	Oregon, .					•			•		-	-	
20	Pennsylvania,	•	•	•	•	•					4.84	4.89	
21	Rhode Island,			•				•	•		-	-	
22	Tennessee, .	•			•		•	•	•		-	-	
23	Vermont, .		•			•			•	•	-	-	
24	Virginia, .								•		-	-	
25	West Virginia,	•	•		•	•					-	-	
26	Wisconsin,		•	•	•	•			•		-	-	
27	United States (1	ot	speci	fied)		•	•	•	•		-	-	
28		F	oreio	m C	ounti	ries.					_	_	
29	England, .		 -								_	_	
30	Great Britain.	:				-		•			_	_	
31	Scotland, .	•			•		•		•		_	-	
				_	_								
32 33	No companies-		No (Comp	aris	on.					-	_	
)• <u>)</u>	No comparison,		•	•	•	•	•	•	•	•	_	-	
31			AG	GREC	ATE	s.					99.00	100.00	
35	United States,			•	•	•	•	•		•	99.00	100.00	
36	Foreign Countr		•	•	•	•	•	•	•	•	-	-	
37	No comparison,										-	-	

We next present a diagram table, based upon percentages, in which the United States as a whole is compared with For-

$\overline{\top}$	w	Lov	Low	Mkblus	IUM	Мко	Нісн	Мкриги
	l'ercent- ages	Branches of Occupations	Percent-	Branches of Occupations	Percent- ages	Branches of Occupations	Percent-	Branches of Occupations
1	0.20	0.20	0.44	0.44	-	-	- !	-
2	-	-	2.87	2.84	2.48	2.46	1.77	1.75
3	1.12	1.11	0.68	0.67	5.13	5.08	3.03	3.00
4	-	-	0.14	0.14	0.09	0.09	-	-
5	0.32	0.31	0.38	0.38	0.33	0.33	-	-
6	-	-	0.11	0.11	0.29	0.29	0.51	0.50
7	-	-	2.52	2.50	0.54	0.53	-	-
8	-	-	1.01	1.00	-	-	-	-
9	72.78	72.05	42.80	42.37	33.65	33.31	29.29	29.00
10	1.86	1.84	2.58	2.55	1.89	1.87	3.71	3.67
11	-	-	1.01	1.00	-	-	-	-
12	0.20	0.20	1.31	1.30	3.88	3.84	8.08	8.00
13	-	-	-	-	1.01	1.00	-	-
14	0.20	0.20	1.01	1.00	0.33	0.33	-	-
15	1.73	1.71	6.06	5.99	2.68	2.65	6.22	6.16
16	8.27	8.18	15.64	15.48	20.14	19.94	16.59	16.42
17	0.34	0.34	-	-	-	-	-	-
18	2.16	2.14	7.32	7.25	8.50	8.41	12.63	12.50
19	-	-	-	-	-	-	1.01	1.00
20	3.60	3.56	5.72	5.66	7.86	7.78	6.06	6.00
21	0.11	0.11	-	-	-	-	-	-
22	-	-	-	-	-	-	0.25	0.25
23	2.02	2.00	-	-	-	- 1	-	-
24	0.20	0.20	0.11	0.11	-	-	-	-
25	-	-	0.20	0.20	1.21	1.20	-	-
26	-	-	2.30	2.28	2.02	2.00	-	-
27	-	-	-	-	1.21	1.20	-	-
28	2.36	2.34	1.01	1.00	1.01	1.00	-	-
29	1.35	1.34	0.505	0.50	-	-	-	-
30	-	-	0.505	0.50	1.01	1.00	-	-
31	1.01	1.00	-	-	-	-	-	-
32	_	_	_	-	_	-	1.01	1.00
33	-	-	-	-	-	-	1.01	1.00
34	100.00	99.00	100.00	99.00	100.00	99.00	100.00	99.00
35	97.64	96.66	98.99	98.00	98.99	98.00	98.99	98.00
36	2.36	2.34	1.01	1.00	1.01	1.00	-	-
37	-	1 -	-	-	_	-	1.01	1.00

eign Countries as a whole, due allowance being made for those branches of occupations in which comparisons could not be made.

GRADES AND CLASSI- PICATION OF STATES AND COUNTRIES.	Legend: 1≸ 1/32nd of an inch
High. United States, .	1004
Medium High. United States, .	98.99\$
	1.01\$
Medium. United States.	98.99%
	1.01\$
Medium Low. United States, .	98.99%
	1.01\$
Low. United States, .	97.64\$
	■2.36 \$

We close our analysis with a table showing the comparative results for 103 occupations considered in the Report for 1895 and the 99 occupations considered in the present volume. This table is based upon the two diagram tables and shows the percentages in each grade (in all cases based upon highest quotations) for the United States and Foreign Countries, each considered as a unit.

On a nua			United	STATES	FOREIGN (COUNTRIES	No Comparison		
GRADES	•		1895	1896	1895	1896	1895	1896	
High,			95.15	100.00	_	_	4.85	-	
Medium high, .		.	72.82	98.99	-	-	27.18	1.01	
Medium,		.	96.12	98.99	1.94	1.01	1.94	-	
Medium low, .		.	73.78	98.99	0.97	1.01	25.25	_	
Low,		.	92.24	97.64	2.91	2.36	4.85	-	

It will be noticed that the instances of "no comparison" in 1896 show a great reduction over the presentation for 1895, there being complete comparisons in four of the five grades in the presentation for 1896. There is absolutely no competition between the United States and Foreign Countries as regards the highest High and Medium High weekly wages, for Foreign Countries had no representation whatever in either 1895 or 1896. There is practically no competition as regards the other three grades, the highest representation secured by Foreign Countries being but 2.91 per cent in 1895 in the "Low" grade. This means in 2.91 per cent of the 103 occupations considered in that year, that Foreign Countries paid higher "Low" wages than were paid in the same occupations in the United States. In all grades, in both years, in the 202 occupations considered, the United States has an unquestioned lead, and to secure this lead no state in the Union has contributed so largely as Massachusetts.

[Note. — In the Twenty-eighth Annual Report of the Bureau, for 1897, the presentation of the tables of Graded Weekly Wages will be continued, with analyses and comparisons on the same plan as used in this Report. As the quotations of wages and prices now in copy in the Bureau aggregate nearly 650,000, it is evident that several years more will be required for their complete presentation. In the final volume, wages and prices for Massachusetts will be presented for that year, thus supplying opportunities for a chronological comparison from the earliest to the latest year considered.]



PART III.

LABOR CHRONOLOGY. 1896.



PART III.

LABOR CHRONOLOGY—1896.

[In all paragraphs where the name of the city or town is not specifically mentioned, the city of Boston is the locality to be understood.]

HOURS OF LABOR.

JANUARY.

1st. — At a meeting of National Association of Machinists, Lynn, it was voted to demand a nine-hour working day, May 1.

3rd. — Lynn & Boston Street Railway Employés Union, Lynn, requested shortening of Sunday working day.

13th.—At a meeting of Building Trades Council, Boston, committee on eight-hour working day reported a disposition among master builders to grant shorter day without contest.

184h. — Agitation for a shorter working day begun by Granite Cutters Union, Boston. 93rd. — Union 264, International Association of Machinists, Boston, voted to demand a nine-hour working day May 1.

FEBRUARY.

2md. — At a meeting of Central Labor Union, Brockton, it was voted that the organization favored a Saturday half-holiday for wage earners of the city, beginning March 1.

20th. — Employes of Fall River Iron Works Co., Fall River, were requested to work until 12:30 at noon and 5:30 at night and till 6 on Saturday to make up for time lost by break-down; they refused to comply and left work at usual time. — Nine lasters were discharged from certain shoe factory in Haverhill because of refusal to work ten hours. They were members of the Lasters Union which specified the working day of its members as nine hours.

MARCH.

1st. — At a meeting of Central Labor Union, Lawrence, the committee which had been appointed to investigate alleged violations of the nine hour law in city departments reported satisfactory adjustment of hours of labor in all but one department.

2nd. — At a meeting of Carpenters Union 33, Boston, workmen of that trade were urged to thoroughly organize and endeavor to obtain a shorter working day.

7th. - Retail Grocery and Provision Clerks Union, Boston, held meeting in favor of early closing movement.

Stm.—The several unions of bakers in Boston united in one body in order to better accomplish a reduction in hours of labor.—Hatters of Boston held mass meeting and discussed tendency to increase hours of labor in their trade.—Executive council of A. F. of L. issued a circular to all affiliated unions in regard to a national demand for a decrease in hours of labor and requested information as follows:

Number of local unions affiliated.

Number of members.

Number of hours now prevailing in the trade.

Total funds now under control of the organization.

Does your union contemplate a movement looking to a reduction of the hours of labor? Does it desire to be selected by the A. F. of L. to make the demand?

Will it require financial assistance from the A. F. of L.?

If so, to what extent?

At what time would you deem it most advisable for the demand to be made?

Please give any other information which may be of interest in the furtherance of the

10th. - Firemen's Protective Union 6130, A. F. of L., Boston, considered shorter working day and decided to hold a series of public meetings in order to bring it about. It was claimed that many men operating mercantile boilers are on duty 84 hours per week.

22md. - Barbers of Boston, at mass meeting were addressed on subject of shorter working day and urged to demand it. --- Machinists Union 28 and Waiters Alliance, Boston, discussed question of less hours in their respective trades.

25th. - State inspector visited New Bedford and investigated alleged running of certain mills overtime. He decided that in future the 58-hour law should be strictly enforced.

29th. - Machinists Union 28, Boston, appointed committee to canvass machine shops of Boston and vicinity and obtain individual sentiment in regard to a shorter working day. -- Bottlers and Drivers Union, Boston, discussed hours of labor.

APRIL.

1st. - The new order of Carpenters Union, Lynn, for an eight-hour working day beginning at 8 A. M., went into effect. The change was made by the greater number of master builders.

2md. - Pittsfield Builders Association voted that nine hours should constitute a day's work.

7th. - At a meeting of painters and decorators of Boston, it was decided that after May 1 the working day in the craft should consist of eight hours.

10th. — At quarterly convention of New England Iron and Brass Moulders Union held in Boston, it was decided to make an effort to enforce a uniform rate of hours of labor in every foundry in New England.

11th. - Several manufacturing corporations of New Bedford posted notices that operatives who worked more than 58 hours in one week would be discharged.

12th. - Building Laborers Union 6, Boston, considered question of shorter working day. --- The efforts of the painters and the hoisting and portable engineers of Boston, to establish a shorter working day in their respective trades, were endorsed by the Building Trades Council.

14th. - State Federation of Weavers, in convention at Waltham, adopted following

Resolved, That we delegates in convention assembled, endorse the action of the several New England States in their efforts to shorten the hours of labor for women and minors, and, further, be it

Resolved, That we urge upon the National House of Representatives the advisability of the passage of some measure for the uniformity of the hours of labor for textile operatives.

16th. - Artificial Stone and Asphalt Workers Union held meeting and discussed shorter working day.

19th. - Painters of Boston held meeting in the interest of a shorter working day at which addresses were made on that subject. It was decided not to press the question of increase in wages while endeavoring to secure a reduction in hours.

27th. - Bricklayers of Great Barrington struck to enforce demand for a nine-hour

28th. - At a meeting of Garment Workers Union 37, Boston, complaints were made of the violation of the law in regard to overtime work.

29th. - Machinists Union, Lynn, voted to enforce the nine-hour working day. -Carpenters Union, Lynn, voted to withdraw demand for increased wages and accept master builders' concession for an eight-hour working day.

MAY.

1st. - Steamfitters and their helpers and painters of Boston began working on eighthour time. — Union shoe workers of Haverhill began work under summer schedule, having half-holiday on Saturday. ---- Machinists of Lynn inaugurated a strike for a ninehour working day. —— Masons of Pittsfield struck to bring about a nine-hour working day.

3rd. — Hoisting and Portable Engineers Union, Boston, ordered a strike in order to secure an eight-hour working day.

11th. — Barbers Union, Boston, at meeting discussed the necessity of a shorter working day, claiming the health of workmen to be seriously impaired by long hours of confinement. — Painters and decorators of Pittsfield began working on nine-hour schedule.

18th. — Carpenters Union 33, Boston, discussed necessity of making an effort to reduce the hours of labor. —— Cornice workers, Boston, listened to addresses advocating a shorter working day in that trade.

19th. — Secretary of Spinners Union, Fall River, at a meeting of Spinners' executive committee, announced that he had received a communication from a congressman respecting the proposed amendment to the Constitution giving Congress power to pass a national law regarding the hours of labor.

20th. — Road Commissioners of Clinton received petition from employés of the sewer department requesting that nine hours constitute a day's work.

34th. — Grocery and Provision Clerks Union, Boston, decided to start movement to secure a half-holiday on one day of each week.

JUNE.

1st. — Barbers Union, Boston, held mass meeting in the interest of the shorter working day. The union requested that all barber shops be closed every night in the week excepting two.

8th. - At a convention of carpenters of New England held in Boston, the following resolutions were adopted:

Resolved, That we still adhere to the philosophy of the eight-hour movement, believing it to be of paramount importance, as it vitally affects the interests of carpenters; and, be it further

Resolved, That the carpenters of New England shall enforce the eight-hour day on and after May 1, 1897.

14th. — Building Trades Council, Boston, endorsed the movement for a shorter working day by the barbers and provision clerks. It was resolved that organized labor be requested not to patronize stores refusing to comply with the request of the clerks.

19th. — At a meeting of Retail Grocery and Provision Cierks Union, Boston, it was reported that the majority of employers had granted their cierks a half-holiday during July and August.

28th. — Brewery employés prepared agreement regulating hours of labor and presented it to employers for signature.

JULY.

7th. — At a meeting of the Retail Grocery and Provision Clerks Union, Boston, it was reported that the early closing movement and the effort to obtain a half-holiday during the summer months had met with success. The half-holiday was generally granted on Wednesday afternoon.

12th. — Representatives of local lodges of International Machinists Union met in Boston and decided to demand the nine-hour working day throughout the New England States, beginning October 1.

37th. — At a meeting of Barbers Union, Boston, the executive committee made a favorable report on the early closing movement.

AUGUST.

19th. — Garment Workers Union 1, Boston, held meeting to decide when demand should be made for a decrease in hours of labor. It was decided to wait until business improved unless employers made an attempt to increase working hours.

21st. — At a meeting of Retail Grocery and Provision Clerks Union, Boston, favorable reports concerning the early closing movement were made. It was decided to extend the agitation throughout the State. Resolutions were adopted endorsing the early closing movement of the barbers.

SEPTEMBER.

1st. — Carpenters Union 24, Salem, held meeting in interest of shorter hours of labor. Addresses were made showing that what had been accomplished in lessening the working day had been done through organization in the craft.

21st. — At a meeting of Central Labor Union, Boston, it was charged that laborers on municipal and public work were obliged to work more than the legal number of hours.

Resolutions were adopted calling for the enforcement of laws in regard to the hours of labor.

23rd. - Carpenters of Salem held public meeting in the interest of the shorter working day.

95th. — Sail makers of Boston and vicinity inaugurated a strike in order to reduce the working day from ten to nine hours.

OCTOBER.

- 1st. About 3,500 garment workers of Boston, organized in the various unions, inaugurated a strike in order to enforce an agreement which limited the working day to nine hours.
- 4th. At a meeting of Spinners' executive committee, Fall River, complaints were received from operatives at mills of Parker Manufacturing Co. that machinery was started up at 6.30 A.M. and one set of hands worked from that time until 4 P.M., with an intermission of one half-hour; another set of operatives began work at 4 P.M. and worked until 10 P.M. This time-table included Saturday. It was the opinion of the committee that if this time-table were continued when business improved it would be detrimental to the interest of laboring people.
- 84h. National Mule Spinners Association in convention in Boston, adopted resolutions calling for a reduction of the hours of labor in all New England States excepting Massachusetts, and appropriated \$50 to be expended in agitating for a reduction of hours in Maine. —— At a meeting of Weavers Union, Fall River, the practice of overtime work in certain mills was condemned and it was decided that an effort should be made to stop it.
- 11th. -- Independent Order of Grocery and Provision Clerks, Lynn, held meeting in the interest of a half-holiday on Thursday. A committee reported that three-fourths of the proprietors of stores had agreed to the demand of the clerks.
- 13th. At a meeting of Firemen's Union, Boston, it was reported that by a conference between a committee of the Central Labor Union and the Brewers Association the hours of labor for firemen employed in breweries had been reduced from twelve to eight, wages remaining the same.
- 22nd. Sail makers of Boston, by means of a strike, succeeded in obtaining a reduction in hours from ten to nine, but agreed to accept less wages.

NOVEMBER.

- 1st.—At a meeting of the Central Labor Union, Boston, a committee appointed at previous meeting reported that laborers on subway were compelled to work 10 and 12 hours per day.
- 10th. At a meeting of Spinners' executive committee, Fall River, it was reported that mills in New Bedford were running until ten o'clock, P.M.
- 20th.—A complaint was made by member of the State police that three women employed in a laundry in Brockton, had, on a certain day, worked 11 hours. The women testified that they had worked voluntarily in order to be relieved from work the following day. The defense claimed that the women had been employed not more than 58 hours per week. The government claimed that the law made no provision for working overtime on any day, except in case of an accident to machinery.
- 23nd. At a meeting of Building Trades Council, Boston, stonecutters complained of a violation of State law limiting hours of labor to nine on all State, county, and city work. Typographical Union 13, Boston, endorsed proposition to establish a nine-hour working day in book and job offices.

DECEMBER.

- 1st.—Cornice Workers Union, Boston, held meeting and considered hours of labor in that trade. Preparations were made for a conference with master cornice workers in regard to wages and hours of labor for 1897.
- 6th.—At a meeting of Central Labor Union, Boston, delegates complained of the violation of the law in regard to the employment of women and children in factories and mercantile establishments. It was reported that in many instances from 60 to 95 hours' work were required without pay for the overtime. Resolutions were adopted calling for a better enforcement of the law, and urging all working women who were required to work more than 10 hours a day to report to the secretary of the Central Labor Union. Sunday work on the subway was condemned as unnecessary and in violation of

the law. The municipal legislative committee was instructed to obtain evidence and to have the law governing Sunday work enforced.

11th. — Painters and Decorators Union 111, Lynn, made demand on master painters for an eight-hour day for journeymen painters, beginning April 1.

13th. — At a meeting of Bakers Union, Springfield, the State organizer spoke on the necessity of shorter hours in that trade.

134h. — Typographical Union 13, Boston, discussed the necessity of a shorter working day in the book and job branch of the printing trade. It was decided to call a mass meeting of the trade in order to obtain a vote upon the subject.

*77th. — At a meeting of Building Trades Council, Boston, a committee was appointed to make arrangements for a meeting of all the building trades in the interest of the eighthour working day.

WAGES.

JANUARY.

6th. - Perley Weeks, shoes, Haverhill, decided to pay union prices.

11th. — Employés of Boston Gossamer Rubber Co., Hyde Park, received reduction in wages.

18th.—Board of Conciliation, Haverhill, adopted a price list for turned goods and ordered several shoe manufacturing firms to restore prices.—Luddy & Currier, shoes, Lynn, refused to grant increase in wages and strike was ordered by Edge Setters Union, K. of L.

15th. - West Lynn Shoe Co. reduced wages and Cutters Union ordered a strike.

30th. — Dyers employed by American Printing Co., Fall River, quit work because of reduction in wages.

23md. - Lasters Union 39. Boot & Shoe Workers Union, Brockton, issued new price list.

FERRUARY.

6th. — Employés of Textile Manufacturing Co., Westfield, struck on account of rate of wages paid in one department.

84h. — Lasters Protective Union 62, Marblehead, presented new price list to manufacturers, in which the price on cheap goods was voluntarily reduced 10 per cent.

10th.—State Board of Arbitration, in annual report, stated that arbitration and conciliation in the name of the State was fully justified by practical experience; that the board had taken cognizance during the past year of controversies involving people whose yearly earnings are estimated at \$1,704,000.

13th. — Strike at shoe factory of Dodge Bros., Newburyport, occasioned by refusal of firm to grant increase in wages.

16th.—The Brockton Daily Enterprise proposed to New England Branch of International Typographical Union that the State Board of Arbitration be asked to fix the price for machine work on every daily paper in the State published outside of Boston and of less than 10,000 circulation.

19th. — Strike averted at shoe factory of Colburn, Fuller, & Co., Milford, by firm agreeing to submit differences in regard to wages to State Board of Arbitration.

Seth. — Low prices and condition of market caused reduction in wages of weavers of Wekepeke Woollen Co., Clinton.

MARCH.

Ist.—In the agreement between the Granite Manufacturers Association and the Granite Cutters Union, Quincy, an article was amended and a new rule made as follows: "When a manufacturer fails to pay on the regular pay day, he must give a satisfactory reason to the workmen's committee or the workmen may suspend work. Any workman discharged shall be paid at once."

5th. — Executive board of National Boot & Shoe Workers Union refused to sanction the proposed strike of boot and shoe workers of Haverhill, in order to enforce a new price list for turned work.

8th. — Hatters of Boston held mass meeting and discussed tendency to lower wages in their trade.

26th. — The introduction of new price list by Lasters Protective Union of Lynn, caused a strike at shoe factory of Joseph Dickinson.

29th. - Bottlers and Drivers Union, Boston, held a meeting and discussed wages.

APRIL.

1st. — Carpenters Union 108, Lynn, enforced demand of increase in wages of 35 cents per day, making daily pay of first class workmen \$2.75.

6th. — Masons employed in construction of building in Salem struck for an increase from 39 to 42 cents per hour, making wages of first class journeymen \$3.78 per day.

- 10th.—The decision of the State Board of Arbitration in adjusting the wages of vampers employed by Colburn, Fuller, & Co., Milford, was as follows: The price for vamping on one needle cylinder machine, two rows, slik or cotton, 30 cents per dozen; former price 20 cents; price on double needled machines 20 cents per dozen; former price, 15 cents
- 10th. At the quarterly convention of the New England Iron and Brass Moulders Union, held in Boston, it was decided to make an effort to enforce a uniform rate of wages in every foundry in New England.
- 12th. Building Trades Council, Boston, endorsed the efforts of the painters and the holating and portable engineers to secure an increase in wages in their respective trades.
- 16th. Artificial Stone and Asphalt Workers Union, Boston, discussed proposition to demand higher wages in their trade.
- 19th. Painters of Boston decided not to press question of wages while endeavoring to secure a reduction in hours, and to accept 30 cents per hour for actual number of hours worked.
- 21st. Decision of State Board of Arbitration in case of Rice & Hutchins, shoes, and S. H. Howe Shoe Co., Mariborough, against their employés, showed an average reduction in prices.
- 23rd. Master builders, Lynn, refused to concede demand of Carpenters Union for an increase in wages of 25 cents per day.

284h. — Carpenters Union 10, Lynn, agreed to accept terms of contractors, working time being reduced but wages remaining at \$2.50 per day for first class journeymen.

MAY.

1st.—Conductors and Motormen of Consolidated Street Railway of Worcester, presented a petition to management of road requesting that the company adopt a uniform wage rate of \$2.00 per day.

7th. - Painters and Decorators Union 11, Boston, voted that beginning May 11, \$2.50 per day should be the rate of wages for an eight-hour day.

11th. — Master painters, Boston, granted request of Painters and Decorators Union 11 for a uniform wage rate of \$2.50 per day.

• 16th. — Stage employés at Keith's new theatre, Boston, struck to enforce demand for \$18 for six days' work instead of \$12 for seven; also \$3.75 for Sunday and 50c. per hour for overtime work.

21st. — Lasters of Randolph demanded an advance on certain grades of work and the matter was submitted to the State Board of Arbitration.

26th. — Wages of city laborers, New Bedford, reduced from \$2 to \$1.80 per day.

JUNE.

- 15th. Journeymen plumbers of Malden, Medford, and Melrose struck to compel master plumbers to sign agreement fixing the rate of wages at \$3.00 per day for first class workmen and \$2.50 per day for second class men.
- 16th. At a meeting of District Lodge 15, International Association of Machinists, Boston, it was decided to request that the wages of machinists employed in the navy should be raised from \$50 to \$90 per month.
- 24th. Iron Moulders Union, Lowell, held mass meeting and urged abolition of the piece system of payment in that trade. It was stated that steadier work and higher wages would result from a regular wage scale.

28th. — Brewery employés prepared agreement regulating wages and presented it to employers for signature.

JULY.

1st.—The State Board of Arbitration rendered decision in the matter of the joint application of the Boyd & Corey Boot & Shoe Manufacturing Co. and its employes and John A. Frye, shoes, and his employes. The Boyd & Corey decision involved 30 items.

The Frye decision involved 100 items. In the Frye case the board was requested to give both piece prices and day prices, and being impressed with the difficulty of making day and piece prices for the same work, and for fear of doing injustice, recommended piece prices only, leaving the question of a day price to be settled between the employer and the workmen, according to each man's ability.

11th. — The strike of compositors, pressmen, feeders, bookbinders, stampers, and stereotypers employed by Ginn & Co., publishers, Cambridge, was settled on the following basis: All compositors, stereotypers, pressmen, and feeders to be paid at the rate of wages obtaining before the strike; the bookbinders to the number of 15 to work under union conditions and at the union scale of wages; ten remaining bookbinders to be paid \$18 per week until certain time.

30th. — Strike of paving cutters, Gloucester, settled by advance of \$1.00 per thousand on certain kinds of block.

AUGUST.

1st.—Chase Lasters Protective Union, Brockton, issued following price list for lasting on high speed machines: Plain toe buff shoes, four cents; cap toe buff shoes, four and a half cents; cap toe buff shoes with boxes, four and three-quarter cents; for kangaroo, calf, split, dongola, or sheep, according to style and quality, extras to be paid; on narrow toed shoes, extras to be paid; on narrowest toes, extras to be paid according to style; extras to be paid for trimming or fitting innersoles; extras to be paid for shoes with hard boxes.

3rd. — Differences as to scale of wages paid employés caused shutdown of shoe factory of Colburn, Fuller, & Co., Milford; factory to remain closed until settlement was effected.

13th. — Waiters Alliance, Boston, inaugurated strike in several restaurants in order to enforce demand for an increase in wages.

19th. — Garment Workers Union 1, Boston, held meeting to decide when demand should be made for an advance in wages. It was decided to wait until business improved unless employers made a reduction.

SEPTEMBER.

1st. — Carpenters Union 2i, Salem, held mass meeting at which speakers urged effort to obtain an increase in wages.

84h. - Strike was instituted at shoe factory of Bradley, Hagney, & Leonard, Randolph, because of refusal of firm to accept price list for lasting presented by employés.

14th. — Carders' executive committee, Fall River, considered alleged grievances in regard to falling off in pay and instructed secretary to investigate the charge.

16th. — At a special general meeting of carders, Fall River, the operatives employed at mills of American Linen Co. expressed themselves as satisfied to work temporarily at reduced rate of wages.

17th. — Master brewers of Boston adopted agreement presented by Brewers Unions 14 and 29. The scale of wages was as follows: First man in cellar, \$18 per week; first man in fermenting room, \$18; first man in kettle department, \$18; first man in wash house, \$18; floor men in ale and porter department, \$17; men in cellar and fermenting room, \$16; men in kettle department, \$16; men in wash house, \$15; night watchmen (seven nights per week), \$16; route drivers, \$17; depot drivers, \$16; strikers (drivers' helpers), \$13; first man in stable (seven nights), \$17; firemen, working seven days or seven nights, \$16; other men in stable, \$14.

27th. — Striking sail makers of Boston voted to continue the strike until master sail makers had granted the shorter working day, wages remaining at \$3.00.

28th. — Strike occurred among granite cutters because of alleged violation of agreement in regard to wages.

OCTOBER.

1st.—About 3,500 garment workers of Boston, organized in Unions 1, 19, 25, and 43 inaugurated a strike in order to enforce renewal of agreement which provided for a higher rate of wages.

84h. - Chase Lasters Protective Union, Brockton, at regular meeting declared itself opposed to the reduction of wages in machine lasting.

22md.—Sail makers of Boston succeeded, by means of a strike, in establishing a nine-hour working day, but were obliged to accept a reduction in wages from \$3.00 to \$2.70 per day.

NOVEMBER

1st.—At a meeting of Central Labor Union, Boston, the municipal committee stated that laborers on the subway were compelled to work 10 and 12 hours for \$1.50. The following resolution was adopted: Resolved, That the joint municipal committees of the Central Labor Union and the Building Trades Council refer to affiliated bodies and urge them to ask the city officials to have all future contracts on public works made so that contractors shall pay employés not less than the city rate of wages for similar work.

10th.—At a meeting of Painters Union 11, Boston, it was stated that the sub-contract system was being substituted for the day and weekly method of payment. It was claimed that this would result in the lowering of wages and resolutions condemning it were adopted.

13th. — Central Labor Union, Boston, pledged support to the barbers in their demand for a fixed wage scale and a strict enforcement of the same January 1.

DECEMBER.

1st.—Cornice Workers Union, Boston, held meeting and discussed wages. A conference was requested with master cornice workers in order to regulate wages for 1897.

—At a meeting of Barbers Union 182, Boston, it was stated that wages in that trade were lower than ever before, with a manifest tendency towards further reductions. It was decided that after January 1, a minimum rate of \$12 per week should be demanded.

—At a mass meeting of women employed in the bookbinding trade in Boston, it was claimed that wages were lower in that city than in any other, notwithstanding the superior quality of work. It was decided to hold a series of agitation meetings.

21st.—At a meeting of Hoisting and Portable Engineers Union, Boston, a complaint was made that hoisting engineers employed on a portion of the subway had had their wages reduced three cents per hour. A committee was appointed who should endeavor to have the rate restored and resolutions were adopted condemning all attempts to reduce wages.

27th. — At a meeting of Central Labor Union, Fall River, delegates from the Barbers Unions made complaint of "cut-rate" prices prevailing in non-union barber-shops. Members of organized labor were recommended to refuse patronage to such shops.

TRADES UNIONS.

[The Trades Union meetings referred to hereinafter took place in Boston, unless some other city or town is specifically mentioned.]

JANUARY.

1st. — At a meeting of Finishers Union 37, Brockton, a new price list was adopted. —
National Association of Machinists, Lynn, voted to demand a nine-hour day after May 1.

3rd. — Division 46, Amalgamated Association of Street Railway Employés, Boston, voted to petition State Legislature against blennial elections. —— Carriage and Wagon Workers Union 9, Boston, voted against blennial elections.

4th. — Lynn and Boston Street Railway Employés Union voted to accept the working agreement between the union and Lynn & Boston Railroad Co. for 1896.

5th. — At a meeting of Boston Central Labor Union, a communication was read from a member of the school-committee endorsing the position of the union on the need of more school-houses. Delegates were admitted from Carpenters Union 33, Waiters Alliance, Glaziers Union, Amaigamated Engineers Association, Core Makers Union, Freight Hindlers Union 6572, and Machinists Union 28. —— At a meeting of Journeymen Tailors Union, Boston, it was decided that no union man should work with any of the craft who was not a member of the Journeymen Custom Tailors Union of North America. —— Water Works Assembly 479, K. of L., Boston, elected officers. —— Brockton Central Labor Union admitted delegates from Bockland Web Weavers Association and instructed legislative committee to petition city government to reduce fare on street railways. A resolution denouncing Chinese labor was passed.

7th. — At a meeting of Hoisting and Portable Engineers Union, Boston, it was decided to investigate the discharge of an engineer from Deer Island.

9th. — Master Bakers Association held annual convention in Boston and elected officers. — District Council 2, United Garment Workers, Boston, elected officers. — International Association of Machinists, Boston, voted aid to striking glass workers of Somerville. — Treers Union, Brookton, adopted new price list.

11th. — Executive council and legislative committee of State Federation of Labor met in Boston and decided to call attention of all labor organizations to the evils of blennial elections.

12th.—At a meeting of Building Trades Council, Boston, new delegates were admitted from Marble Cutters Union and Painters Unions 11, 57, and 192. Committee representing local building trades unions reported a large increase in membership since it was decided to agitate an eight-hour day. The discharge of a certain engineer was denounced and committee appointed to investigate.—Sanitary and Street Cleaning Department Workers Union 6664, A. F. of L., Boston, endorsed proposition for public bathing places in winter and decided to establish sick and death benefit feature. Seven new members were admitted.—Freight Handlers Union 6527, A. F. of L., Boston, installed officers, and Coal Handlers and Teamsters Union, Freight Handlers Union 6498, and Building Laborers Union 15, Boston, elected officers.—At a meeting of Brockton Central Labor Union it was voted to admit reporters to meetings. Legislative committee presented resolution calling for reduction of fare on street raliways during certain hours.

13th. — At a meeting of Slasher Tenders and Drawing-in Girls Union, the yearly financial report showed \$804.85 to have been expended and \$928 remaining in the treasury.

14th. — Conductors and Motormen's Union, Boston, held special meeting to consider agreement between Union and West End Street Rallway Co. — Carpenters Union 33, Boston, elected delegates to Building Trades Council and admitted ten new members. — Electrical Workers Union 35, Boston, admitted new members. — Glass Stainers Union and Firemen's Protective Union 6130, A. F. of L., Boston, elected officers. — At a meeting of Spinners' executive committee, Fall River, complaints were made of an unfair discharge and of a certain corporation running overtime. Stoppage pay and accident allowance amounting to \$16 was granted.

15th. — Roofers Protective Union and Printing Press Feeders Union, Boston, elected officers.

16th. — Granite Cutters Union, Boston, held open meeting, the object of which was to effect a reduction in hours of labor and to increase membership. — Waiters Alliance, Boston, endorsed proposed inspection of bakeshops and reduction of fare on street railways.

18th. - Central Labor Union, Lowell, re-organized and elected officers.

19th. - Central Labor Union, Boston, admitted new delegates from the following unions: Electrical Workers, Journeymen Tailors, Building Laborers 15, Granite Cutters, Garment Workers 25, Housesmiths, Coopers 48, Horseshoe Nail Makers, Press Feeders and Helpers, Elastic Goring Weavers, Hat Finishers, Cigar Makers 97, Coal Handlers 6128, Bookbinders, Musicians Protective, and Roofers Protective. Bakers' inspection bill was endorsed and biennial elections condemned. Resolutions were adopted in regard to the appointment of a commission of skilled mechanics to represent the city of Boston at an exhibition of mechanic arts to be held in Hungary. - At a conference of brewery workers, Boston, German Oak Assembly 858, K. of L. dissolved and members united with Local Union 14, A. F. of L. - District Assembly 30, K. of L., Boston, elected officers. Legislative committee was instructed to urge legislation for abolition of contract system on public work and to advocate a Saturday haif-holiday for city employes throughout the year. Assembly declared itself opposed to biennial elections. — Central Labor Union, Brockton, admitted newspaper reporters for the first time. A communication from the A. F. of L. required the C. L. U. to drop from membership all unions not affiliated with national organizations of their kind. A communication from Detroit gave detailed information regarding work done resulting in reduced fare on street railways. Committee instructed to draft bill to be presented to Legislature requiring all convictmade goods to be so stamped; also to draft resolutions in regard to city dispensing medicines to poor at reduced rates.

20th. - Typographical Union 61, Cambridge, installed officers.

21st.—Stablemen and Coachmen's Protective Union 6237, A. F. of L., Boston, elected officers.—At a meeting of Spinners' executive committee, Fail River, it was reported that a member of the Legislature had been requested to introduce an order in that body to abolish the system of recovering time lost by breakdowns in manufacturing establishments. Spinners at certain mill complained of low wages resulting from operating poor material.—Weavers' executive committee, Fall River, received complaints of mills running overtime. Financial report showed a gain in funds of over \$300 during past week.—At a meeting of Board of Conciliation, Haverhill, it was decided inadvis-

able to request the services of the State Board of Arbitration to settle disputes between manufacturers and employés.

22nd.—General secretary of Atlantic Coast Seamen's Union, Boston, summoned to Washington to attend hearing before Congressional committee on matter of legislation for seamen.—Lasters Union 39, Boot and Shoe Workers Union, Brockton, presented new price list to manufacturers for work done on lasting machines.

25th. - Central Labor Union. North Adams, elected officers.

26th. - At a meeting of Building Trades Council. Boston, a resolution was adopted calling upon the Legislature to enact a law prohibiting contractors from employing any but citizens of the United States on public work. The bill of Granite Cutters Union requiring stone for public buildings to be dressed on site of building was endorsed and resolutions were adopted condemning blennial elections. New delegates were admitted from Carpenters Union 33, Glaziers, Housesmiths, Granite Cutters, and Roofers. Typographical Union 13. Boston, appointed committee to protest against proposed biennial elections and passed resolutions imposing a fine upon members who patronized boycotted firms. - Journeymen Barbers Union, Boston, discussed admission of women of that trade into the Union and decided that it was inadvisable. --- At a meeting of Herdic Drivers Union, Boston, it was voted to make a demand for more stands. --- Street Cleaning and Sanitary Department Workers Union 6064, A. F. of L., Boston, met and discussed grievances. - Brockton Central Labor Union voted to retain charter with A. F. of L. and to ask for extension of time before dropping certain unions from membership. Resolutions were passed condemning local newspapers for publication of unreliable and damaging information concerning business situation. Delegates were admitted from Bakers and Confectioners, Web Weavers, and Finishers Unions.

27th. — Hand Sewers Local Assembly, K. of L., Brockton, held meeting and appointed committee to see local shoe manufacturing firms and settle difference in price list. — At a meeting of Spinners' executive committee, Fall River, \$20 was paid for stoppages and accidents. The question of investing funds at higher rate of interest was discussed. — Reports read at a meeting of executive committee of Slasher Tenders Union, Fall River, showed a gain of three in membership and \$68 in funds during past week. — Carders' executive committee, Fall River, paid \$12 for accidents and reported gain of ten in membership during past week. — Lasters Protective Union, Haverhill, ordered strike of lasters in local factory. — Central Labor Union, Lynn, voted not to endorse label of Boot and Shoe Workers International Union, A. F. of L.

28th. — Housesmiths Union, Boston, elected delegate to attend convention for formation of national organization.

29th. — Delegates representing labor organizations appeared before committee on constitutional amendment of Legislature and spoke in opposition to biennial elections. —— Typographical Union, Lawrence, elected officers.

30th. — At a conference of brewery workmen, Boston, Local Assembly 2108, K. of L., united with Union 29, A. F. of L. Union 14 (German) and Union 29 (English-speaking) became united with National Brewery Workers Union, the A. F. of L., and Boston C. L. U. — At a meeting of Lasters Union, Haverhill, it was reported that the trouble concerning prices had been settled.

31st. — Handsewers Assembly 6927, K. of L., Brockton, discussed wage trouble in local shoe factory and voted to refer matter to District Board, K. of L., for settlement.

FEBRUARY.

1st: — Lasters Union, Lynn, declared a lockout at shoe factory of N. F. Tucker & Cobecause of discharge of union lasters.

2md.—At a meeting of Central Labor Union, Boston, officers were elected and delegates admitted from the following unions: Brewery Workers 14 and 29, Sliver Burnishers, Bakers 4, Metal Polishers, Garment Workers 37, Firemen's Protective, Newspaper Mailers, Roofers Protective, Stereotypers, Iron Moulders, Theatrical Stage Employés, and Journeymen Barbers. The Boot & Shoe Workers Union label and bill before Congress regulating the manning of lake vessels were endorsed. Legislative committee was instructed to support bill before the Legislature compelling street railway companies to provide means for protecting motormen and drivers from the inclemencies of the weather. The union was requested to endorse the following bills before the Legislature: That of the textile workers providing that 54 hours should constitute a week's work for women and children; and that providing for a children's bureau and board of trustees to exercise supervision over the care and education of children who are wards of the State-

Resolutions were passed setting forth the advisability of the city government making a play ground of South Bay. Secretary was instructed to inform Commissioner of Immigration at New York that delegates from Machinists Union 28 and the Amalgamated Society of Engineers claimed that the importation of workmen to set up machinery in this country was unnecessary. --- At a meeting of Central Labor Union, Brockton, the legislative committee presented draft of resolution favoring reduction of fare on street railways: also drafts of bills providing for the free dispensing of medicine by the city and the marking of prison-made goods. The Saturday half-holiday for wage earners of the city beginning March I was favored. A resolution was adopted condemning certain shoe manufacturing firms for hiring cheap foreign labor to the exclusion of local help. The request of Lake Seamen's Union of Chicago, Ill., for endorsement of bill relative to manning vessels on the Great Lakes, was granted. It was reported that two factories, manufacturing tacks and shoes respectively, were not paying their employés weekly. Mixed Union and Edge Trimmers and Setters Union reported donations to the Fishermen's Union at Oshkosh, Wisconsin. - Lasters Union, Haverhill, discussed new price list. It was decided to give certain shops a chance to settle by adoption of the list before effort was made to compel them to adopt it. --- At a meeting of Central Labor Union, Lawrence, it was reported that in certain city departments the nine-hour law was being violated. A committee was appointed to wait upon the heads of these departments and demand immediate compliance with the law .--- Central Labor Union, Marlborough, elected officers and appointed committee to investigate and report on establishment of proposed new street railway. ---- At a meeting of Central Labor Union, Springfield, a committee was appointed to draw up amendment to the city ordinances forbidding contract labor in city work and providing that only Springfield citizens be so employed. A resolution in regard to starting a co-operative store to supply demand for union-made goods was passed.

4th.—At a meeting of Spinners' executive committee, Fall River, the detention of skilled mule fitters in New York, under provision of the contract labor law, was discussed. It was decided that the law was not intended to apply to such cases and that the men who build machines should be allowed to set them up.

6th. - Casket Workers Hardware Union, Westfield, ordered a strike at factory of Textile Manufacturing Co.

7th. -- Joint Council 4, Boot & Shoe Workers Union, Lynn, held mass meeting at which the necessity of union among shoe workers was presented.

Sth.—Shoe workers of Whitman held, mass meeting at which president of Boot & Shoe Workers Union of America made address upon the necessity of being allied with some organization.

9th. - Representatives of Machinists Union 28, Lodge 264, International Association of Machinists, and Boston Branch of Amalgamated Society of Engineers held meeting in Boston, at which Commissioners of Immigration from New York and Boston were present. The meeting was for the purpose of proving the ability of American machinists to do that work for which machinists then detained in New York had been imported. -Trades Council. Boston, admitted delegates from Amalgamated Carpenters Union, Painters and Decorators 145, and Plasterers' Tenders Union of Dorchester. It was decided not to pass resolutions on the proposed change in tax laws until after further consideration. The eight-hour bill before the Legislature was endorsed. The following resolutions were adopted: Protesting against any change being made in the manner of selecting trustees of the Franklin fund; endorsing the early closing movement of grocery and provision clerks; and calling for recognition of organized labor in appointments to public service. - At a meeting of Book and Job Printers Union, Boston, it was charged that the industrial schools of the city seriously affected the printers' trade. --- At a meeting of Central Labor Union, Brockton, it was reported that the bill providing that prison-made goods should be so marked had been introduced into the Legislature. The boycott on a clothing manufacturer of Boston was endorsed. -- Several New England cities were represented at the Loom Fixers convention held in Fall River; a per capita tax was recommended and a committee appointed to revise the by-laws. --- Heelers Union, Lynn, suspended from the Knights of Labor, voted to affiliate with the Boot & Shoe Workers Union.

11th. — At a meeting of Spinners' executive committee, Fall River, an application was made for accident pay by a spinner who had been injured while helping to extinguish a fire in the mill in which he was employed. It was decided that he was engaged in his ordinary occupation in a proper way and was entitled to receive benefits. — At a meeting of Central Labor Union, Lynn, the previous vote not to endorse the new label of the Boot & Shoe Workers Union was reconsidered and the label adopted.

12th. — Spinners Union, Fall River, at general meeting discussed matter of investing funds at higher rates of interest; it was voted to give executive committee power in regard to proposition. Spinners employed on 1600-spindle mules complained that wages were lower than formerly under same price list. They were instructed to ask proper parties for redress. ——Shoe cutters of Haverhill decided to surrender charter in Knights of Labor and apply for one in Boot & Shoe Workers Union.

15th. — At a meeting of Firemen's Protective Union, Boston, officers were elected and a schedule, reducing hours of labor and regulating wages, was prepared to be presented to employers.

16th. - Central Labor Union, Boston, admitted delegates from Sheet and Plate Glass Glaziers, Printing Pressmen's Union 67, Stove and Hollow Ware Moulders, and Journeymen Steamfitters. Resolutions were adopted as follows: Opposing the proposed change in taxation laws; condemning the Transit Commission for attempting to take from the Common that portion under which the subway was being constructed; and recommending the appointment of a practical electrician at head of the line department. The bill before the Legislature for better sanitary condition of bakeshops was endorsed. The secretary was instructed to suggest that a member of the C. L. U. be appointed upon the Public Baths Commission. Committees for next six months appointed as follows: State and National legislative, municipal legislative, credentials, executive, label, organization, education, statistics, and grievances. - At a meeting of Central Labor Union, Brockton, it was reported that circulars had been sent to manufacturers asking them to grant the Saturday half-holiday. The secretary of the A. F. of L. sent communication stating that the extension of time asked for by the C. L. U. for unions not affiliated had been granted to July 1. Three members of the C. L. U. were appointed to be present at the hearing before the Legislature on the marking of prison-made goods. — Laborers Union, Brockton, was requested to send delegates to the C. L. U. - At a meeting of Central Labor Union. Lawrence, the committee appointed to investigate the charges of overtime work in city departments reported such charges true. The C. L. U. notified the proper State authorities with the request that immediate action be taken. --- Edge Makers Union, K. of L., Lynn, held meeting to determine whether it would remain with the Knights of Labor or join Boot & Shoe Workers International Union. --- Central Labor Union, Marlborough, endorsed bill relating to sanitary inspection of bakeshops then before the Legislature. It was voted that the committee on labels should investigate the alleged selling of non-union cigars under union labels. The committee on the proposed newspaper reported that shares would be issued and a company incorporated.

17th. — Several Journeymen Bakers Unions, Boston, held a meeting and discussed the bill for the sanitary inspection of bakeshops. Resolutions were adopted condemning the alleged efforts of the master bakers to defeat it. — Journeymen Custom Tailors, Boston, held mass meeting at which addresses were made on the necessity of better organization, cleaner workshops, and shorter hours of labor. — Carpenters Union 33, Boston, adopted resolutions favoring the establishment of public bath-houses, to be erected by day labor. — Carders' executive committee, Fall River, paid out \$20 for accidents. The strike of 12 speeder tenders was discussed and it was decided to support the two who were members of the Union. — Board of Conciliation, Haverhill, voted to sustain the union in enforcement of the price list which had been adopted.

18th. — Executive committee of Central Labor Union, Boston, adopted resolutions calling upon the Legislature to restrain the subway commissioners from giving the West End Street Railway Co. an exclusive lease of the subway; also to prohibit a long lease or one which cannot be terminated at the pleasure of the city. —— A new trade union, The Fraternal Garment Workers Association, was organized in Boston; its object was to secure protection in work and wages for all garment workers who might become members; to promote their welfare, and to establish and maintain places for reading-rooms, libraries, and social meetings. —— At a meeting of Spinners' executive committee, Fall River, it was reported that the State Federation of Weavers was planning to introduce a bill into the Legislature that differed from the bill offered by the carders and spinners, by providing that mills may run overtime to recover for stoppages of machinery less than half an hour. The secretary reported that he had requested certain overseers to favor the spinners under them by estimating the work on the spindles when making up wage accounts.

19th. — Cutters Assembly, K. of L., Lynn, held meeting and decided not to enter the Boot & Shoe Workers International Union.

20th. — Delegates from Cigar Makers, Shoe Makers, Moulders, and Stone Cutters Unions, Milford, formed a Central Labor Union. — Barbers Union, Waltham, voted to close shops at one o'clock on Saturday.

23rd. - At a meeting of Building Trades Council, Boston, resolutions were adouted in which the council declared itself opposed to any legislation which would exempt from taxation a portion of the personal property of the wealthy citizens of the State and place the tax on houses and land to the detriment of the tenant and rent payers. New delegates were admitted from Amalgamated Carpenters, Building Laborers, and Hoisting and Portable Engineers. - Herdic drivers, Boston, organized as a trade union. -Typographical Union 13. Boston, discussed the percentage plan of payment of dues and elected officers. -- Sanitary and Street Cleaning Department Workers Union 6064. A. F. of L., Boston, elected officers, admitted five new members, and received ten applications, A sick benefit feature, as reported upon by a committee, was adopted. --- At a meeting of Water Works Union, A. F. of L., Boston, it was claimed that there was a necessity for providing work for citizens of the municipality; a special committee was appointed to investigate. — Trade Council 2. United Garment Workers. Boston, listened to address on "The Evils of the Ready Made Clothing Trade and the Remedy." ---- Central Labor Union, Brockton, admitted delegates from Bakers and Confectioners Union. The working committee reported having distributed circulars regarding union-made tobacco, and National Tobacco Workers Union reported factories in several States that were using the label. The legislative committee was given further time in which to draw up petition regarding reduction of fare on street railways. It was voted to withhold news from a local newspaper and \$15 was donated to the Fishermen's Union at Oshkosh, Wisconsin.

24th.—Central Labor Union, Lynn, admitted delegates from Cigar Makers Union and Unions 72, 80, and 96 of Boot and Shoe Workers Union. An address was made by president of B. & S. W. U. of America.

23th. — At a meeting of Spinners' executive committee, Fall River, it was reported that the yarn had been sized in the mills where complaints had been made in regard to falling off in wages and had been found to be all right. —— Carders' executive committee, Fall River, paid \$16 for accidents and \$6.50 for stoppage of machinery. It was reported that three delegates had been sent to legislative hearing on bill to abolish recovery of lost time in mills. —— Weavers' executive committee, Fall River, received report of gain in membership.

27th. — Shoe cutters, Lyan, held mass meeting and passed resolutions condemning attempt to cause disunion in ranks of organized labor and pledging fealty to Cutters Union and K. of L. — Typographical Union 228, Norwood, elected officers and delegate to New England Typographical Convention.

28th. — President of Boot and Shoe Workers Union of America installed officers of Cutters Union, Haverhill, which had withdrawn from K. of L.

39th. — Representatives of Granite Manufacturers Association and Granite Cutters Union, Quincy, met and settled matters of new agreement which had been under consideration since December; the manufacturers agreed to eliminate the non-discrimination clause from the bill of prices.

MARCH.

1st. - At a meeting of Central Labor Union, Boston, the Coast Defence bill in U. S. Senate was denounced and executive committee was instructed to take action against it. The proposed tax reform plan was discussed and it was decided to refer subject to a special committee which should report in writing at next meeting. A resolution condemnatory of sentence imposed by court was adopted and the formation of a new union of garment workers was denounced. ---- Central Labor Union, Lawrence, admitted delegates from Plasterers, Iron Moulders, and Theatrical Mechanics Unions. The committee appointed to investigate alleged violations of the nine-hour law in certain city departments reported a satisfactory adjustment of matter in health, police, and water departments, but not in street department. Committee was instructed to continue investigation under legal advice. --- At a meeting of Central Labor Union, Marlborough, the legislative committee was instructed to investigate the matter of salaries in street department and the non-payment of certain laborers. - At a meeting of Central Labor Union, Springfield, the boycott against a shoe manufacturing firm was decided to be unjust and was withdrawn. A city ordinance in regard to payment of laborers was endorsed and the abolition of the contract system in city work discussed. The establishment of a co. operative store was considered and a committee appointed to inquire into the feasibility of the plan.

2md. — A mass meeting of boot and shoe cutters was held in Lynn and a new organization formed, to be known as Lynn Cutters Union 99, Boot & Shoe Workers Union.

3rd. — At a meeting of Weavers' executive committee, Fall River, a gain of 18 in membership was reported for the past week. ——Spinners' executive committee granted \$8 for

accidents and \$6.65 for stoppages of machinery. Secretary reported that \$5,000 of the Union's funds had been loaned on a six months' note at six per cent.

4th. — Executive committee of Typographical Union, Boston, held special meeting and disclaimed participation in a boycott.

5th. — Executive board of National Boot & Shoe Workers Union refused to sanction the proposed strike of organized shoe workers of Haverbill, in order to enforce new price list for turned work.

7th. — Retail Grocery and Provision Clerks Union, Boston, held meeting for purpose of arousing demand for shorter working day. —— Cutters Union, K. of L., Lynn, ordered strike at shoe factory of L. J. Richards & Co., in order to secure a revision of price list.

8th. - At a meeting of Brewery Workmen's Union 29, Boston, resolutions were adopted protesting against passage of a bill by Legislature which prohibited corporations chartered under laws of other States, engaging in the brewery business in this State. A committee was appointed to appear at hearing and remonstrate against its passage. Bakers Unions 1, 2, and 4, Boston, met and united in one body in order to do more effectual work in bringing about sanitary condition of bakeshops and in reducing hours of -Water Workers Union 6356, A. F. of L., Boston, voted not to admit Lecal Assembly 479, K. of L., into the union as a body, but only by individual application. new union, composed of men engaged in the beer and tonic bottling industry, was organized as Bottlers and Drivers Union, A. F. of L., with 57 charter members, -Boston held a mass meeting and discussed tendency toward lower wages and increasing hours of labor in the trade. It was decided to form a union and apply for charter in the A. F. of L. - At a meeting of Building Trades Council, Boston, resolutions were adopted protesting against a 50 years lease of the subway or its exclusive lease to any one corpo-- At a meeting of the Central Labor Union, Brockton, it was decided to circulate a petition requesting lower rates of fare on Brockton Street Railway. --- Central Labor Union, Haverhill, met and transacted routine business. The request of educational committee for \$50 for educational purposes was granted.

9th.—Slasher Tenders and Drawing in Girls Union, Fall River, held regular meeting. Financial report showed a gain of \$74 during past month. It was voted that members would not be allowed to run a slashing machine for a non-union workman.—Ceutral Labor Union, Lynn, adopted resolutions protesting against blennial elections. General organizer of National Brotherhood of Electric Workers of America, was present and asked assistance of the union in order to organize the electric workers of Lynn. A committee was appointed to assist him in his work.—State conference committee of Bricklayers and Masons International Union was held in New Bedford. Twenty-five delegates, representing 18 unions, were present, and reported favorably on the condition of trade in their respective localities. It was voted to adopt a system of correspondence between different unions, so that union men would have preference in obtaining work. The eight-hour day was discussed, and although the desire for it was general, it was decided to wait for a more pronounced revival in business. The conference adjourned to meet in Springfield in November.

10th. — Hoisting and Portable Engineers Union, Boston, transacted routine business and considered important trade matters. — At a meeting of Firemen's Protective Union 6130, A. F. of L., Boston, it was claimed that many men operating mercantile boilers were on duty & hours per week. It was decided to hold a series of public meetings and agitate for a shorter working day. — Retail Grocery and Provision Clerks Union, Boston, appointed a committee on constitution and by-laws and admitted 20 new members. — Spinners' executive committee granted \$13.70 on account of accidents. — Central Labor Union, Milford, appointed committees on organization and agitation and decided to meet alternate weeks. It was voted to endorse the stamp of the Boot & Shoe Workers Union and the blue label of the Tobacco Workers Union of North America. — All labor organizations in State received circular from Boot & Shoe Workers Union stating that, whereas, rival organizations had existed among boot and shoe workers, resulting in a division into small factions and operating to their detriment, it had been resolved:

"That the American Federation of Labor, in 15th annual convention assembled, does hereby heartly endorse the action of the organized boot and shoe workers in their efforts to unite the craft.

"That all endorsements heretofore given by the American Federation of Labor to labels, stamps, trade-marks, or devices representing the whole or any part of the boot and shoe workers be and hereby are withdrawn; and that the union stamp of the Boot & Shoe Workers Union be and hereby is endorsed as the label or trade-mark of the organized boot and shoe workers, and that no boots or shoes shall be considered as union-made

except they bear upon the sole an impression of the Boot & Shoe Workers Union stamp, with factory number attached."

11th.—At the regular monthly meeting of Carders Union, Fall River, an article of constitution relating to benefits was amended. The secretary was instructed to correspond with Carders Union of New Bedford in regard to an amaigamation. A committee was appointed to confer with a like committee of that city.——At monthly meeting of Spinners Union, Fall River, financial reports showed a gain in funds during past month of \$616 37. Following sums were paid in benefits: Accidents, \$42.65; stoppages of machinery, \$33.35; deaths, \$75. Delegates were elected to represent union at convention of National Mule Spinners Association.

12th. — Weavers Union, Fall River, met, and after transacting routine business, elected two members to serve on executive committee. Financial statement showed a net gain of \$1,420.95. Death claims amounting to \$100 and a per capita tax of \$165 to State Federation had been paid. It was decided to call special meeting for election of delegates to State Federation convention.

13th. — Brewery workmen of Boston held mass meeting at which final steps were taken toward amaigamation of that trade by 2,000 men, formerly K. of L., resigning membership in that organization and entering A. F. of L. through Unions 14 and 29. — Label committee of Cigar Makers Union 97, Boston, announced that a certain brand of cigars bearing the union label were not made under union conditions. — At a mass meeting of boot and shoe workers of Lynn, the national president of Boot & Shoe Workers Union made an address warning workingmen of the inutility of local strikes and urging unity in the craft. Several hundred persons applied for membership in the Boot & Shoe Workers Union. ——Central Labor Union, North Adams, adopted resolutions supporting Typographical Union in its trouble with publishers of local newspaper.

14th. - Boot and Shoe Workers Union, Haverhill, elected officers.

15th. -- At a meeting of Central Labor Union, Boston, the legislative committee was instructed to oppose the passage of the Whitney gas bill in the Legislature. The passage of the biennial election bill was denounced and a resolution in regard to it adopted. A letter was received from Colorado warning workingmen from seeking certain alleged gold fields of that State. A member of the Public Baths Commission requested the opinion of the body in regard to the proposed nominal charge of five or ten cents for use of the bath then under consideration by the Commission. The C. L. U. adhered to its former position in favor of free baths. - Freight Handlers Assembly 5572, Boston, passed resolutions protesting against any railway corporation being given exclusive privileges of the subway and endorsing bill before the Legislature to take this power away from the Rapid Transit Commission. Four new members were admitted - At a meeting of Longshoremen's Trades Council delegates were present from L. A. 5789, 7174, 8067, and 9623. Resolutions were adopted calling upon the municipal government to secure a suitable building in which labor organizations could hold their meetings and keep their records. At a meeting of Central Labor Union, Brockton, a committee was requested to investigate the alleged selling of ready made clothing as custom made. — At a meeting of Central Labor Union, Lawrence, it was reported that a permanent organization of stone masons had been effected. Further progress was reported in investigation of alleged violations of the nine-hour law. --- At a meeting of Central Labor Union, Marlborough, committees were appointed to investigate the recent increase in fare on local street railway and to solicit funds from other unions for a new weekly labor paper. It was voted to endorse the label of the Boot & Shoe Workers Union, to push the movement against non-union tobacco, and to continue investigation of affairs at Southborough Water Works. ---- Central Labor Union, Springfield, listened to address by delegate from National Tobacco Workers Union. It was decided to double the per capita tax on affiliated unions. The committee appointed to investigate plan of a co-operative store reported finding the sentiment of union men favorable to such a project.

164h. — Spinners' executive committee, Fall River, paid \$8 for accidents and instructed secretary to investigate alleged low wages at certain mill. — Carders' executive committee, Fall River, granted \$28 for accidents. —— Iron Moulders Union, Lowell, admitted 25 new members. —— Woollen Spinners Union, Lowell, elected officers.

17th. — Representatives of organized labor from principal cities of State met in Boston and decided to take steps to arouse working people to a necessity of defeating the biennial election bill. — Carriage and Wagon Makers Union, Boston, held meeting and discussed demands made upon employers by the union and considered advisability of ordering a strike. A strike committee was appointed with power to settle with those employers who wished to keep their establishments in operation.

18th.—A branch of the National Association of Stationary Engineers organized in Framingham with 50 charter members.——Boot & Shoe Workers Union, Haverhill, withdrew its delegates from the Board of Conciliation.——Bleachers and Dyers Union, Waltham, were addressed by president of Boston C. L. U. on the necessity and benefit of organization.

19th.—Carriage and Wagon Workers Union, Boston, requested manufacturers to sign the following agreement: "To employ none but members in good standing of said union; to require of their workmen only nine hours' work per day on the first five working days of the week, and only eight hours' work on Saturday, and to put the union label on all new work manufactured by them."

\$2nd. - Building Trades Council, Boston, admitted delegates from Building Laborers Union 10 of Cambridge, Lodge 1 New England Order of Carpenters, and Carpenters Union 67 of Roxbury. The question of free transfer on system of West End Street Railway Co, was discussed and bill before Legislature providing for it was endorsed. The legislative committee was instructed to request committee on street railways of Legislature to hold an evening session in order that working people might have an opportunity to attend. Officers were elected. - Machinists Union 28, Boston, discussed the ninehour movement for May 1 and appointed committees to ascertain the extent of nine-hour sentiment in the trade. - Bottlers and Drivers Union, Boston, appointed committee on constitution and by laws. - Water Workers Union, 6356, A. F. of L., Boston, endorsed bill before Legislature for free transfer on system of West End Street Railway Co. A committee was chosen to appear before street railway committee of Legislature in support of measure. --- A mass meeting of barbers was held in Boston and addressed on the necessity and benefits of labor organizations. The advantages of a shorter working day were presented and the barbers were urged to demand a decrease in number of working hours. --- At a meeting of Street Cleaning Department Union 6064, A. F. of L.. Boston, the contract at force in the street cleaning department was condemned. Five new members were admitted. - Freight Handlers Union 6527, A. F. of L., Boston, endorsed request of Barbers Union that union men should refuse to patronize non-union barber shops; also that of Cigar Makers Union in regard to certain brand of cigars. -At a meeting of Waiters Alliance, Boston, long hours and violations of weekly payment law were discussed. The constitution and by-laws, considered at previous meeting, were ratified and officers were elected. --- At a meeting of Central Labor Union, Brockton, delegates from Edge Setters and Trimmers Union, after explaining trouble at shoe factory of A. M. Herrod & Co., requested endorsement of their action by C. L. U. The matter was discussed and a committee appointed to report on affair at next meeting. A meeting of representatives of Fall River and New Bedford Carders Unions was held in Fall River at which it was decided to organize an "Amalgamated Association of Card Room Workers." A committee was elected to draft a constitution. --- Executive council of State Federation of Weavers met in New Bedford and voted to hold semi-annual convention in Waltham in April.

25th. — Typographical Union 18, Boston, elected officers.

26th.—Weavers Union, Fall River, held special general meeting and elected delegates to attend convention of State Federation.—The introduction of new price list by Lynn Lasters Protective Union occasioned a strike at shoe factory of Joseph Dickinson.

27th. — Trimmers, Edge Setters, and Rounders of Lynn, organized as Union 101, Boot & Shoe Workers Union, with 40 charter members.

29th. — Machinists Union 28, Boston, held meeting and appointed committee, to be known as Machinists Nine Hour Council, to canvass every machine shop in Boston and vicinity and get individual sentiment in regard to reducing working time. —— United Bakers Union, Boston, held meeting and considered when to enforce the ten-hour working day. The executive committee was instructed to consider the matter. —— Bottlers and Drivers Union, Boston, held a meeting and discussed organization, wages, and hours of labor. Representatives of Brewery Workmen's Unions 14 and 29 were present and assured the organization of the support of their unions.

30th.—Iron Moulders Union, Lowell, held meeting and admitted six new members.

31st.—Spinners' executive committee, Fall River, paid out \$12.65 for stoppages of machinery and \$8 for accidents.——A new organization, Tailors Protective Union, formed in Fall River with 85 charter members.——Lasters Union, Brockton, elected officers.

APRIL.

2nd. — At a meeting of Back Boys Union, Fall River, reports read showed a gain of 50 in membership and \$60 in funds during past month. Total amount of funds, \$608.13

— Lasters Union, Lynn, declared a lockout at factory of National Shoe Co. — Employing builders of Pittsfield organized as Pittsfield Builders Association and voted that nine hours constitute a day's work. The following resolution in regard to employment of labor was passed:

"Resolved, That while we are not opposed to the employment of any man because of his membership in any union, yet we are of the opinion that our interests as employers will not permit us to let any but ourselves decide whom we shall employ, and what work we shall personally do in carrying on our contracts."

3rd. - Lasters Union, Haverhill, met and installed officers.

5th. - At a meeting of Central Labor Union. Boston, new delegates were admitted from Bookbinders Union, Waiters Alliance, Freight Handlers Union 6498, Iron Moulders Union 106. Sanitary and Street Cleaning Department Workers Union 6064, Painters Union. and Horseshoe Nail Makers and Assorters Unions. A resolution declaring against the bill for the election of members of the board of aldermen was indefinitely postponed. The organizing committee reported a new union of waitresses. General secretary of Boot & Shoe Workers Union made address on growth of organization and the use of union labels. The C. L. U. endorsed the label of the B. & S. W. U. and appointed committee to wait upon retail boot and shoe dealers and request that they refrain from purchasing goods not endorsed by the B. & S. W. U. - Central Labor Union, Brockton, elected officers. At a meeting of Central Labor Union, Haverhill, \$50 was voted to the educational committee. --- Carpenter's Union 108, Lynn, held meeting and considered action to be taken in regard to employers who refused to comply with the recent demands of the union for less working hours and more pay. It was decided to hold another meeting. --- Coal Handlers Union, Lynn, held meeting and declared a strike among teamsters of a certain firm of coal dealers.

6th. — Central Labor Union, Springfield, received reports of the committee which investigated trouble among employés of Highland Bottling Co. Progress in regard to the co-operative store scheme and a revival of the Barbers Union was reported.

7th. — At a meeting of Slasher Tenders' executive committee, Fall River, \$5 was paid in stoppage pay and three new members admitted. — At a meeting of Weavers' executive committee, Fall River, reports showed a gain of 239 in membership since January 1. A committee was appointed to act with other unions in regard to the overtime bill and collectors were notified not to collect from persons more than 12 weeks in arrears. — Carpenters Union 108, Lynn, held meeting at which committee reported about 20 master builders to have acceded to demands of the union for a shorter working day and increased wages; a committee was appointed to hold conference with master builders.

Sth. — Boiler Firemen's Union, Boston, held mass meeting and discussed better organization, better wages, and a shorter working day. The law providing for the licensing of firemen was endorsed and 25 new members admitted. — Lodge 264, International Association of Machinists, Boston, held meeting and decided to push the nine-hour working day movement. Thirty-two persons made application for membership. —— Firemen's Protective Union, Boston, held mass meeting and appointed a committee on organizing. — Granite Cutters Union, Boston, held mass meeting and considered grievances affecting members. It was referred to executive committee for settlement.

Oth. — Cornice Makers Union, Boston, was re-organized. ——Quarterly convention of National Mule Spinners Union was held in Boston; 27 delegates, representing principal manufacturing cities of New England, were present. Treasurer's report showed that during past year the union had loaned \$15,000 to Massachusetts mills. The secretary reported that Rhode Island had been thoroughly organized. Resolutions were adopted endorsing the bill before Legislature calling for the abolishment of "recovery" time, and endorsing efforts of textile operatives of Maine and New Hampshire to secure enactment of 38-hour law for women and minors. Delegates from other states reported that efforts had been made to establish laws in conformity with those of Massachusetts. An organizer was chosen to visit the Southern States and money was appropriated for that purpose and also to assist the short hour movement in remaining New England States.

10th. — Quarterly convention of Iron and Brass Moulders Unions of New England, was held in Boston at which delegates from 89 local unions were present. More thorough organization of the craft was discussed and an organizer who should devote his entire time to this work was chosen. It was decided to select a conference board to whom all grievances should be referred. The wage schedule was considered and it was decided to demand a more uniform rate of wages and hours of labor.

18th. — At a meeting of Building Trades Council, Boston, delegates were present from Carpenters Union 33, Glaziers Union, Branch No. 2 Amalgamated Society of Carpenters and Joiners, and Steamfitters' Helpers. The efforts of the painters and hoisting

and portable engineers to bring about a shorter working day were endorsed and it was decided to assist the painters. — Local Assembly 479, K. of L., Boston, composed of employes of water department, held meeting and surrendered its charter as K. of L. and joined A. F. of L. as a body. — Building Laborers Union 6, Boston, held meeting and considered the shorter working day movement and admitted eight new members. — Employes of various beer and mineral water bottling establishments of Boston, organized as Drivers and Bottlers Local Union 120, A. F. of L. — At a meeting of Sanitary and Health Department Workers Union 664, Boston, it was voted inadvisable to allow foremen to become members. Fifteen new members were admitted. — Stone masons of Boston, held mass meeting and were addressed on matters pertaining to the trade by general secretary of Bricklayers and Masons International Union and president of Bricklayers Union 3, Boston. — At a meeting of Central Labor Union, Brockton, delegates were admitted from Elastic Web Weavers Association and Treers and Lasters Unions. Committees were appointed on work, legislature, and statistics, and resolutions were adouted favoring the immigration bill before Congress.

13th. — At a regular meeting of Slasher Tenders Union, Fall River, a gain in funds of \$75.60 during past month was reported.

14th. — Printing Presemen's Union, Boston, held meeting, elected officers, and a delegate to international convention. —— State Federation of Weavers held second semi-annual convention in Waltham, April 13 and 14. Delegates representing 90 per cent of organized weavers of the State were present. The following committees were appointed: on resolutions, on auditing, on the press, on grievances, and on legislature. The bill before the Legislature providing for the abolition of the use of exhaust steam as a means of dampening the warps was discussed. The use of this steam is considered detrimental to the health of operatives and it was recommended that "humidizers" be put in the mills. The report of treasurer showed a surplus of \$800 in funds. The policy in regard to strikes was outlined; it was that all local difficulties should be referred to the Federation for settlement before there should be recourse to strikes. The executive council recommended that a demand be made for the better enforcement of all labor laws enacted in the interests of textile workers, and also the recognition of all State and National holidays. Officers were elected and \$200 appropriated for organization purposes.

15th. — Carpenters Union 33, Boston, elected delegates to ninth annual convention and admitted 28 new members. — Master carpenters of Lynn and Nahant met in Lynn for purpose of organization and to come to understanding in regard to request of journeymen for higher rate of wages. A committee was appointed on by-laws and constitution and another to meet committee from Carpenters Union in conference on wage question.

16th.—Striking painters of Boston, advised by president of national association, decided to start co-operative enterprise. Twenty dollars was received by strikers from Plasterers Union 10, Boston.—Artificial Stone and Asphalt Workers Union discussed proposition for a shorter working day and increased wages.—Newly organized union of waitresses, Boston, held meeting in the interest of more thorough organization. Twenty-eight additional members were enrolled.

17th. - Printers of Salem organized as a branch of Typographical Union.

18th. — Housesmiths Union, Boston, refused to supply men to fill vacancies in that trade caused by strike in New York.

19th. — Central Labor Union, Boston, was addressed by president of the A. F. of L. on the necessity of harmony in labor organizations and the value of National unions for all trades. Charges were preferred by municipal legislative committee against officials of a city almshouse; the committee was instructed to make other investigations and to call attention of proper authorities to alleged abuses. The organizing committee was instructed to assist coal teamsters and handlers and the longshoremen in perfecting an organization. — Executive board of the State branch of A. F. of L. met in Boston and considered matters of interest to trade unions. It was reported that the barbers and bakers of Brockton had joined the National unions of their respective crafts. The striking casket workers of Westfield were advised to accept reduction and return to work. Delegates representing Garment Workers Unions explained condition of affairs in their trade. It was voted to send circular to every trade union in the State explaining the nature of the grievances of the garment workers.

21st.—At a meeting of Spinners' executive committee, Fall River, a report was made concerning the appointment of a delegate to organize labor in the South. The defeat of the overtime bill was also reported. Spinners of Border City Manufacturing Co. were paid \$56 in lockout pay on account of the strike of the back-boys. Twelve dollars was paid for accidents and \$12 on account of stoppage of machinery.—At a meeting of Carders'

executive committee, a gain of ten in membership during past week was reported.——At a meeting of Spinners Union, New Bedford, the reason of the defeat of the "overtime" bill was explained.——At a meeting of Weavers Union, New Bedford, delegates reported proceedings at State convention of weavers and a discussion was held on a standard price list which had been prepared to be presented to manufacturers.

24th. — Women stitchers of Lynn held a meeting and organized a branch of Boot and Shoe Workers Union.

25th. — At a meeting of Holsting and Portable Engineers Union, Boston, 17 new members were admitted and 27 applications received. ——Paving Department Assembly 3816, K. of L., Boston, consisting of 800 members, withdrew from Knights of Labor and formed an independent union. Officers were elected.

26th. - Building Trades Council, Boston, admitted delegates from Steamfitters' Helpers. Woodworkers Union 24, and recently organized Marble and Mosaic Workers Union. A committee on Labor Day was appointed. Painters Brotherhood 57, P. & D. of A., gave notice that they were to amalgamate with Brotherhood 11. The agreement of the Artificial Stone and Asphalt Workers Union concerning wages and hours, prepared to be presented to employers, received the endorsement of the B. T. C. - Newly organized Bottlers and Drivers Union 122, Boston, became affiliated with Central Labor Union and State Federation of Labor. Officers were elected and 36 new members admitted. -Freight Handlers Union 6227, A. F. of L., Boston, met and discussed grievances. Seven new members were admitted. - Typographical Union 13, Boston, installed officers elected at previous meeting. --- At a meeting of Sanitary and Street Cleaning Department Workers Union, Boston, it was decided to hold a mass meeting to further the more complete organization of city employes. - Brewery Workers Union 14, A. F. of L. Boston, admitted nine new members. --- Garment Workers Unions of Boston held meeting and appointed committee to investigate and report on grievances in their trade. At a meeting of Central Labor Union, Brockton, delegates were admitted from Finishers and Bakers & Confectioners Unions. A communication was received from U.S. Senator promising to lay the resolution of the union in regard to restriction of immigration before the Senate. - Boot & Shoe Workers Union held district conference at Framingham. Delegates were present from surrounding towns. It was voted to form a district council consisting of one delegate from each subordinate union, and a committee to draft a code of rules was appointed. A resolution was passed favoring enactment of law by Legis. lature requiring all prison made goods to be so marked. --- House painters and decorators of Lynn held meeting and considered organization.

27th.—At a meeting of Carpenters Union 33, Boston, 83 new members were received.
—Garment Workers Union 37, Boston, held meeting at which complaints were made of the violation of the law. A committee was appointed to request factory inspectors to make a closer examination of tailor shops. —Firemen's Protective Union 6130, A. F. of L., Boston, held meeting and declared against proposed amendments to engineers and firemen's license law and adopted resolution favorable to the law as it then stood. —Central Labor Union, Brockton, considered grievances among employés in shoe factories.

284h. — Carpenters Union 10, Lynn, decided to accept terms of master builders relative to wages and hours.

29th. — New England Cotton Manufacturers Association held annual meeting in Boston and discussed matters connected with manufacturing and labor.

MAY.

Stereotypers 1 and Brewery Workmen's Union, Boston, delegates were admitted from Stereotypers 1 and Brewery Workmen's Union 29. The organizing committee reported having organized a union of granite polishers in Quincy. Several amendments to the constitution were adopted and it was decided that no Labor Day souvenirs should be issued. The president of United Shop Assistants Union of London made an address.—Locomotive firemen of Boston, held mass meeting in the interest of more thorough organization of their craft.—At a meeting of Central Labor Union, Haverhill, it was decided to place new literature pertaining to labor and social reform, purchased with money appropriated for that purpose, at the disposal of the public.—Central Labor Union, Lawrence, held meeting and after disposing of local business listened to addresses by visiting delegates.—At a meeting of Central Labor Union, Taunton, Building Laborers Union was given leave to withdraw its delegates.

5th. — Hoisting and Portable Engineers Union, Boston, inaugurated a strike for enforcement of a shorter working day. —— Cornice workers of Boston held mass meeting

and re-organized as Cornice Workers Union. It was decided to apply for representation in Building Trades Council. — Central Labor Union, Springfield, instituted a boycott against all saloons dealing in certain non-union products.

6th.—At a meeting of Painters and Decorators Union 11, Boston, it was reported that circulars had been sent to all master painters requesting a re-adjustment of wages and hours in that trade.—Electrical Workers Union 35, Boston, held meeting in the interest of more thorough organization. Thirty-two applications for membership were received.—The seventh annual convention of National Union of Textile Workers was held in Lawrence. Forty delegates were present. Financial reports showed that expenses were less and receipts more than in the preceding year. A gain of 22 local unions with a membership of 2,700 was reported. The inefficiency of strikes was discussed and recommendations disapproving of local strikes were made. It was decided that the union should identify itself with the A. F. of L. but not with any political organization. A delegate to the international convention to be held in France was chosen.

8th. — Paying Department Assembly 9816, K. of L., Boston, voted to give up charter in K. of L. and apply for membership in A. F. of L.

16th.—At a meeting of Building Trades Council, Boston, resolutions were adopted declaring recent accidents the result of hiring incompetent engineers. Delegates were admitted from Cornice Makers Union and Painters Union 192.—Sanitary and Street Cleaning Department Workers Union 6064, Boston, admitted 26 new members. —Freight Handlers Union 6527, Boston, received report of committee appointed to consider advisability of joining the American Railway Union. It was voted to continue membership in the A. F. of L. —Freight handlers employed by N. Y. & N. E. R.R. and members of Union 6488, A. F. of L., organized as branch of American Railway Union. — Local Assembly 5572, K. of L., Boston, composed of freight handlers on B. & M. and F. R.R., became part of A. R. U. — Ben Franklin Assembly 5463, K. of L., Boston, admitted six new members and re-instated ten. —Coal Teamsters and Handlers Union, Boston, met and discussed means of inducing consumers to accept coal from union men only. A working card was issued to members of the union. — District Council of International Boot & Shoe Workers Union met in Framingham. Twenty-six unions were represented and progress made in matter of drafting a constitution and by-laws.

11th.—Cornice Workers Union, Boston, held meeting and considered grievances.—At a meeting of Painters and Decorators Union 11, Boston, it was reported that the greater number of master painters had agreed to the demands of the union.—Slasher Tenders Union, Fall River, held meeting and elected officers. A committee was appointed to revise the by-laws.—Carders' executive committee, Fall River, paid \$6.50 for accidents.—Journeymen Tailors Union, Fall River, admitted several new members.—Cutters Union, Lynn, admitted 11 new members.

12th. — Female waiters of Boston formed permanent organization under name of Waitresses Union. It was decided to open a free employment bureau. —— At a meeting of Spinners' executive committee, Fall River, grievances were presented by spinners of American Linen Co. They were advised to remain at work. —— At a meeting of Weavers Union, New Bedford, the practice of winning premiums was considered and it was decided that it should be discouraged as tending toward lowering of wages.

13th.—At a meeting of Spinners Union, Fail River, it was reported that during the past month \$126 had been granted to spinners of the Davol Mills who had complained of poor stock, for stoppage of machinery.

14th. — Cutters Assembly, K. of L., Lynn, voted to withdraw from Central Labor Union.

15th. — Hoisting and Portable Engineers Union, Boston, held meeting and discussed means of continuing the strike.

17th. — At a meeting of Central Labor Union, Boston, new delegates were received from Steamfitters Union, Typographical Union 13, and Brewers Union 14. The proposition to establish bathing places in the public schools was endorsed, and resolutions were adopted condemning prison labor, and urging the employment of union musicians at public celebrations. — At a meeting of Central Labor Union, Lawrence, it was reported that a new union of plumbers of that city had been organized and had received a charter from the National Plumbers Union. The C. L. U. agreed to affiliate with the A. F. of L., and to send delegates to the national convention to be held in December.

18th. — Carpenters Union 33, Boston, held a meeting in the interest of organization and admitted 100 new members. —— At a meeting of Hoisting and Portable Engineers, Boston, it was reported that the law in regard to licensed engineers was being evaded. —— Local Union 250, A. R. U., with representatives of Unions 247, 357, and 375, Boston, met and discussed grievances. —— Journeymen Tailors Union, Fall River, elected officers

and admitted 10 new members. — Painters Union, Lawrence, voted to submit a schedule to employers in which the piece work clause should be omitted. — Iron Moulders Union 85, Lowell, was addressed by the State organizer on the necessity of organizing.

19th. — At a meeting of Spinners' executive committee, Fall River, it was reported that \$25.25 had been paid out for stoppages and \$3.75 for accidents during past week.

21st. — Hoisting and Portable Engineers, Boston, held special meeting and discussed grievances. It was voted to continue the strike. — Weavers Union, Fall River, held special meeting and considered report of committee on revision of by laws. Decision was postponed. — Machinists of Salem and Peabody held meeting in Salem and took preliminary steps towards organizing. An application for a charter was signed by 35 of those present.

23rd. — Conductors and Motormen's Union 2873, Charlestown, employés of West End Street Railway Co., held meeting at which resolutions were adopted endorsing strike of street railway employés in Milwaukee. Five hundred dollars was appropriated to aid the strikers and 34 new members admitted.

24th. — Building Trades Council, Boston, declared itself in favor of the appropriation of \$300,000 for school sanitation and repairs. It was decided to send resolution to the Common Council urging that the order be passed. — Building Laborers Union 15, Boston, passed resolutions endorsing the strike of the Hoisting and Portable Engineers and admitted 37 new members. — Typographical Union 13, Boston, donated \$25 to aid the striking printers of North Adams. — Federal Labor Union 6064, A. F. of L., Boston, admitted 24 new members. — Bakers Union 4, Boston, admitted 331 new members, the entire membership of Union 2. Officers were elected. Resolutions were passed demanding the enforcement of the law relative to the sanitary condition of bakeshops. — Employés of sanitary and street cleaning division held mass meeting under auspices of Benjamin Franklin L. A. 5463, K. of L. Twelve applications for membership were received. — Freight Handlers Union 6527, A. F. of L., Boston, endorsed position of Freight Handlers Union 250, A. R. U., in remonstrating against petty tyranny on part of foremen.

28th. — Lodge 20, International Association of Machinists, was organized in Salem with 35 charter members. Six other members were added after organization.

31st. — Joint municipal committee of Central Labor Union and Building Trades Council, Boston, met and discussed the restriction placed against the right of free speech on Boston Common and the proposed lease of the subway by the West End Street Railway Co. — At a meeting of Central Labor Union, Brockton, Sole Fasteners Union reported action taken in regard to members who had refused to obey orders. Bakers Union reported that it had decided to affiliate with the International Union. The C. L. U. voted that there should be no parade on Labor Day. Delegates were present from Typographical Union 224 and Sole Leather Workers Union 74.

JUNE.

1st. — Machine and ship blacksmiths, Boston, organized a new union with 74 charter members. It was voted to affiliate with the A. F. of L. Officers were elected. —— Carpenters Union 33, Boston, elected delegates to the State convention and admitted 45 new members. —— Hoisting and Portable Engineers Union, Boston, held meeting and voted to continue the strike.

2nd.—Employing Hairdressers Association, Brockton, elected officers and admitted four new members.—Executive committee of Spinners Union, Fall River, reported \$46.60 paid out during past week for stoppage of machinery and \$7.35 for accidents.—At a meeting of Weavers' executive committee, Fall River, it was reported that a \$60 death benefit had been paid.—Bricklayers Union, Lowell, discussed the employment of non-union men and elected officers.—Cigar Makers Union, North Adams, elected officers.

44a. — Boiler Makers Union 10, Boston, endorsed the strike of theatrical mechanics and elected delegates to the National convention. — Weavers Union, Fall River, held special general meeting and accepted the revision of the by-laws as made by the committee.

5th.—L. A. 1741, K. of L., Boston, composed of railroad employés, held meeting and admitted ten new members.—Ninth annual convention of National Association of Steamfitters met in Boston. Forty-eight delegates, representing the principal cities of the country, were present. It was reported that during the past year 15 new unions had been formed and 10 re-organized. Several changes were made in the constitution and the convention voted to continue the publication of the annual book. The shorter working day was discussed and \$1,000 granted to the striking steamfitters of Washington.

National organizers, a new executive board, and officers were elected. It was voted to hold the next convention in Buffalo.

7th.—Central Labor Union, Boston, admitted delegates from Bakers Union 4 and Barbers Union 189. The municipal committee reported that an investigation of the convict employment system had been asked for. The educational committee was directed to ascertain the ages of children attending the various grades of the public schools. Water Department Workers Union complained that the contract system was being extended on municipal work and that non-residents were being given work in preference to citizens.

Sth. — Delegates from Carpenters Unions, representing principal cities of New England, met in Boston. Ways and means for the better organization of the craft to secure the eight-hour working day were discussed. An organizing committee and a committee to be known as the Bureau of Trade Information were appointed. Resolutions favoring a demand for an eight-hour working day to take effect May 1, 1897, and condemnatory of the contract system on public works, were adopted. — Clothing Cutters Union, Boston, elected officers and endorsed strike of theatrical mechanics. — Slasher Tenders and Drawing-in Girls Union, Fall River, elected new president and admitted two members. Treasurer's report showed a net gain during past month of \$55.55.

10th. — Plasterers' Tenders Union, Boston, elected officers and admitted four new members. — Hoisting and Portable Engineers Union, Boston, admitted 17 new members. — Spinners Union, Fall River, at regular meeting, elected an auditor and members of a committee. The action of the Sabbath Protective League in denouncing Sunday excursions was discussed. — Executive committee of Slasher Tenders and Drawing in Girls Union met and paid \$42 for stoppage of machinery.

11th. — Weavers Union, Fall River, held regular meeting and elected officers. Financial statement for the month showed a gain of \$1,175 in surplus funds.

12th. — Cigar Makers Union 97, Boston, elected and installed officers. —— Carpenters Union 110 organized in Brockton. Officers were elected.

14th.— Ben Franklin Assembly 5468, K. of L., Boston, admitted six new members and adopted resolutions condemning the defeat of the bill for free transfers on the cars of the West End Street Railway Co.——Central Labor Union, Havernill, adopted resolutions denouncing the combination formed to keep up the price of coal.

15th. — Stampers Union 45, Boston, endorsed strike of employés of Ginn & Co., Cambridge. — Journeymen Plumbers Union 145 of Malden, Medford, and Melrose met in Malden and considered the strike to compel master plumbers to sign agreement regulating wages and employment. — Mill Firemen's Union, Fall River, held meeting and listened to addresses on the benefits of organization. Sixteen new members were admitted.

16th. — At a meeting of Building Trades Council, Boston, a committee was appointed to bring about an adjustment of matters causing the strike of the hoisting and portable engineers. — Journeymen Tailors Union, Fall River, admitted several new members. — At a meeting of Spiuners' executive committee, Fall River, it was reported that \$47.35 had been paid out during the week for stoppage of machinery.

17th. — Solefasteners Union, Brockton, held meeting and was addressed by president of Boot & Shoe Workers Union on the necessity of being identified with that organization. —— Loom Fixers' executive committee, Fall River, held meeting at which it was reported that \$80.20 had been paid for stoppage of machinery.

18th. - Roofers Protective Union, Boston, elected officers and admitted ten new members. --- Wood Carvers Union, Boston, elected officers.

19th. — Boot & Shoe Workers Union of America held annual convention in Boston. There were present 175 delegates representing 65 of the principal shoe manufacturing centres of the country. Reports stated that during past year 109 unions, with an aggregate membership of 15,000, had been organized. Hours of labor, wages, and machinery were discussed. A proposed amendment to the constitution practically declaring for socialism was defeated. Resolutions were adopted declaring against biennial elections and denouncing the convict contract labor system. It was proposed to take measures to abolish this system in several States.

21st.—At a meeting of Central Labor Union, Boston, delegates were present from Lithaunian Garment Workers, Theatrical Mechanics and Stage Employés, Journeymen Tailors Union 12, Motor and Car Repairers, and International Association of Machinists 264. Resolutions were adopted denouncing the defeat of free transfer bill and urging continued agitation in order to secure a three-cent fare on cars of the West End Street Railway Co. The educational committee presented statistics concerning school children.—Central Labor Union, Lawrence, elected officers and delegates to the State convention of the A. F. of L. A complaint was made of motormen and conductors being employed contrary to law.

**23md. — Carpenters Union 33, Boston, was addressed on the subject of organization and unity. Applications from 50 new members were received. ——Solefasteners Union, Brockton, held special meeting and voted to join the Boot & Shoe Workers Union. ——Bakers and Confectioners Union, Brockton, became Union 180, International Union of Bakers. Officers were elected.

24th. — Retail Grocery & Provision Clerks Union, Boston, held meeting and elected officers. It was reported that 40 more retail stores had agreed to early closing. The blue label of the cigar makers was endorsed. — Hoisting and Portable Engineers Union, Boston, held meeting and considered several recent accidents. It was resolved to insist upon a more rigid application of the license law. — Loom Fixers' executive committee, Fall River, transacted regular business and ordered a death benefit of \$50 to be paid. The curtailment of production to improve trade was favored. — At a meeting of Spinners' executive committee, Fall River, \$49.75 was paid for stoppage of machinery. — Boot & Shoe Workers Union held mass meeting of shoe workers of Newburyport. Addresses were made on the necessity and benefits of organization.

28th. - Building Trades Council, Boston, admitted delegates from Roofers Union 1, Housesmiths Union, Carpenters Union 67, Cement and Asphalt Workers Union, and Building Laborers Union 17. It was decided to request that work on churches and schoolhouses be given to union men. — Typographical Union 18, Boston, held meeting and elected delegates to the International convention. Resolutions in regard to free transfers and cheaper fare on street cars were passed. Notice was given of proposed amendments to the constitution concerning benefits. The union favored government ownership of telegraph and telephone systems. --- Sanitary Employes Union 6064, Boston, endorsed boycotts levied by Brewers Union 14 and Theatrical Stage Employes Union, and admitted ten new members. - Freight Handlers Union 6527. Boston, elected officers. - Central Labor Union, Brockton, held regular meeting and admitted delegates from Finishers. Sole Leather Workers, and Whitman Lasters Protective Unions. Several communications were received concerning labels and boycotts. The convict labor system was discussed and a draft of proposed legislative act in regard to marking prison-made goods was submitted to the legislative committee. The admission of newspaper reporters to the meetings of the unions was considered and it was decided to continue to admit them.

30th. — Highland Plasterers' Tenders Union, Boston, discussed free transfers and biennial elections and passed resolutions concerning them. — Horseshoe Nail Pointers and Assorters Union, Boston, elected officers. — New union of International Association of Machinists formed in Lawrence with 53 charter members.

JULY.

1st. — Loom Fixers' executive committee, Fall River, met and transacted routine business. — Weavers' executive committee, Fall River, accepted reports from several committees. — Spinners' executive committee, Fall River, paid out \$95 in stoppage pay.

2md. — At a meeting of Boiler Makers Union, Boston, complaints were made that repairs on local steamers were made by incompetent workmen. Resolutions were adopted protesting against the practice, and the secretary was instructed to call the attention of the city authorities to the matter and request that in future boiler makers be employed on all repair work.

3rd. — Members of Lasters Union No. 39, Boot & Shoe Workers Union, Brockton, withdrew from that body and formed Chase Lasters Protective Union.

Sth. — At a meeting of Central Labor Union, Boston, delegates were elected to represent the union in the convention of the State branch of the A. F. of L. The organizing committee was instructed to form a branch of the International Trunk and Bag Makers Union. The matter of a new label of the National Brewery Workmen's Union was referred to local unions. A special committee was appointed to assist the barbers to extend their union. A letter from the president of the A. F. of L., urging trade unions to keep out of party politics, was endorsed. Some data concerning violation of the alien contract labor law was given and it was decided to consult the commissioner of emigration before taking action.

6th. — Central Labor Union, Springfield, held semi-annual meeting and elected officers and delegates to the State convention of the A. F. of L.

7th. — Carpenters Union 33, Boston, elected officers and delegates to the State convention of the A. F. of L. Fifty new members were admitted and 30 applications received. — Journeymen Tailors Union, Boston, held meeting and donated \$50 to the striking members of the craft in Providence, R. I. — Retail Grocery and Provision Clerks Union, Boston, voted to secure charter from the A. F. of L. Delegates were elected to the Cen.

tral Labor Union and it was reported that efforts in behalf of a half holiday and shorter working day were successful. — Holsting and Portable Engineers Union, Boston, held meeting and admitted several new members. — At a regular meeting of Lasters Union 39, B. & S. W. U., Brockton, it was voted to expel a member who had worked in a factory in which the union was having trouble. The report of a committee appointed to investigate charges against a former official was accepted and the committee discharged. — At a meeting of Weavers' executive committee, Fall River, financial reports of the treasurer and secretary were read and accepted. — Spinners' executive committee, Fall River, paid out \$50 in stoppage pay and \$75 in death benefits.

Sth.—Striking employés of Ginn & Co., bookbinders and publishers, Cambridge, held mass meeting in Boston, at which addresses were made by labor leaders and the support of organized labor promised the strikers.—At a regular monthly meeting of Spinners Union, Fall River, the question whether spinners belonging to those corporations which had entered into the curtailment agreement should receive stoppage pay was discussed. It was decided that they were not entitled to it. It was reported that during the past month \$180 had been paid for stoppage of machinery.—Carders Union, Fall River, held general meeting and elected a trustee and two auditors.—Slasher Tenders and Drawing-in Girls Union, Fall River, held regular meeting and voted not to grant stoppage pay to members who were idle through the stopping of the mills.

9th. — Weavers Union, Fall River, held regular meeting and installed officers. Resolutions were adopted exempting members from payment of dues during shutdowns. It was reported that during the past six months \$500 had been paid out in 11 death benefits: — Lynn & Boston Street Railway Employés Union held meeting in Lynn and elected officers for the ensuing six months. It was decided that in the future business between the union and the railroad company should be transacted by the executive board of the pulsar.

11th. — At a meeting of the Building Trades Council, Boston, resolutions were adopted condemning the employment of incompetent men as holsting engineers in the erection of buildings. — Mill Firemen's Union, Fall River, held regular meeting and admitted several new members.

13th. — At a meeting of Typographical Union 13, Boston, the advisability of admitting engineers on type-setting machines to membership was discussed. It was voted to instruct delegates to the international union to favor granting a charter to machine operators. — Cigar Makers Union 97, Boston, elected delegates to convention of the International Union. — Ben Franklin Assembly, K. of L., Boston, elected and installed officers. Four new members were admitted and it was voted to parade on Labor Day. — At a meeting of Journeymen Tailors Union, Boston, the co-operative form of organization was discussed and it was decided that the operators should withdraw and form a separate union. — Freight Handlers Union 6527, A. F. of L., Boston, admitted 16 new members. — Central Labor Union, Brockton, admitted delegates from Laborers Union, Typographical Union No. 224, and Carpenters and Joiners Union No. 110. The organization committee was instructed to meet State organizers of the machinists, painters, and decorators for the purpose of organizing those trades.

14th.—Carpenters Union 33, Boston, elected delegates to the ninth annual convention of the United Brotherhood of Carpenters and Joiners of America. It was voted to parade on Labor Day and 40 new members were admitted.—Chase Lasters Protective Union, Brockton, held meeting and admitted new members.—At a meeting of Spinners' executive committee, Fall River, communications were received from different unions respecting non-union work. No action was taken. A committee was appointed to meet with general Labor Day committee.

16th. — Hand lasters, Brockton, held meeting and considered advisability of withdrawing from Lasters Union 39 and forming new union.

19th. — District Assembly 30, K. of L., Boston, held quarterly meeting and elected officers for Labor Day and a committee to attend hearing on preference of employment of citizens upon public work. —— Central Labor Union, Lawrence, held meeting and listened to address.

20th. — Carders' executive committee, Fall River, paid out \$12 for accidents. — Branch No. 26, National Association of Stationary Engineers, Lawrence, admitted four new members.

**2nd.—Loom Fixers' executive committee, Fall River, met and transacted routine business. It was decided that members should be exempt from payments to the union during the weeks they were unemployed.

23rd. — Journeymen Horseshoers Union, Lawrence, installed officers and admitted three new members. — Barbers Union, Lawrence, new organization, elected officers.

25th. — Journeymen Barbers, Brockton, held meeting and discussed the single chair and co-operative shop question.

36th. - At a meeting of Building Trades Council, Boston, resolutions were adopted declaring that the attitude of the Master Builders Association was indefensible as the constitution pledged the employment of arbitration as a means of averting strikes and lockouts. Delegates representing the electrical workers complained of incompetency of employés in the fire alarm service of the city. It was voted to endorse the demand of the electrical workers for an investigation of that branch of the municipal service. Delegates were admitted from Painters Union 11 and Building Laborers Union 15, and officers were elected. - Sanitary and Street Cleaning Department Union 6064, Boston, adopted measures to increase membership. — At a meeting of Freight Handlers Union 6527, A. F. of L., Boston, it was reported that every member of the union had registered in accordance with the law. --- At a special meeting of the Retail Grocery and Provision Clerks Union, Boston, measures were taken to make the early closing movement general. Central Labor Union, Brockton, admitted delegates from Elastic Web Weavers and Barbers International Unions. The committee on organization reported that during past week a new union of machinists had been organized. A delegate was elected to the State convention of the A. F. of L. The matter of cheaper fare on the street railway was discussed and the legislative committee was instructed to secure counsel in their efforts to secure a reduction. A resolution regarding obligatory membership in the Journeymen Barbers International Union was offered by the barbers and adopted by the C. L. U.

27th. — Carpenters Union 33, Boston, endorsed action of Building Trades Council and adopted resolutions denouncing the attitude of the master builders and declaring against the strike clause which the employers insert in their contracts. — Sanitary and Street Cleaning Department Workers Union 6054, A. F. of L., Boston, appointed a committee to make preparations for the parade on Labor Day and admitted eight new members. — Brewers Union 14, Boston, listened to address and admitted several new members. — At a meeting of Barbers Union 182, Boston, the executive committee made a favorable report in regard to early closing. It was voted to send a delegate to the annual convention of the Barbers International Union, and 16 new members were admitted. — Spinners Union, Fall River, during past month paid out \$125 in death benefits and \$147 for accidents and stoppage of machinery. — Striking operatives at shoe factory of H. B. Reed & Co., Weymouth, formed organization.

284h.—Noddle Island Assembly, 5789, K. of L., Boston, discussed the city appropriation for the celebration of Labor Day and adopted resolutions declaring that the appropriation should be given to organized labor. It was agreed to appoint a committee to secure the names of members who wished to be educated for the purpose of registration.—United Brotherhood of Carpenters and Joiners, Lawrence, held regular meeting and admitted 17 new members. It was voted to extend the time for granting reduced initiation fees until September 1. It was also decided to participate in the Labor Day demonstration of the Central Labor Union.—Lasters Union 32, Lynn, voted that 25 cents per capita should be contributed weekly in aid of strike then in progress against the Thomas G. Plant Co. — Journeymen horseshoers, Springfield, organized a union with 20 charter members; to be affiliated with Central Labor Union.

39th. — Woodworkers Union, Boston, endorsed the action of the Central Labor Union and Building Trades Council, and adopted resolutions declaring the master builders to be in favor of strikes and lockouts and opposed to arbitration.

20th. — Striking operatives at shoe factory of Thomas G. Plant Co., Lynn, held mass meeting. — Journeymen Barbers Union, Worcester, held meeting and admitted 16 new members.

31st. - Loom Fixers Union, Fall River, received several applications for membership.

AUGUST.

Smd.—Central Labor Union, Boston, admitted delegates from Bookbinders, Street Laborers, International Association of Machinists, Paving Department Workers Union, Brewers Union 14, Hoisting and Portable Engineers Union, Electrical Workers 85, Garment Workers No. 1, and Garment Workers No. 19. The subject of boycotts was discussed and a committee appointed to prepare a list of all boycotts now in operation in Boston and to devise ways and means for the enforcement of a portion of them. The labor trouble at the shoe factory of the Thomas G. Plant Co., Lynn, was discussed and resolutions concerning it passed. The following resolution was also passed after discussion: "That the State and municipal legislative committees ascertain what percentage of the

inmates of our penal institutions are annually sent to the hospitals for the insane and the causes thereof." An address was made by the president in which it was reported that during the last three terms 18 new unions had been formed and eight had either withdrawn or lapsed. Attention was called to the necessity of pushing organization among women and active agitation for free speech in the parks and on the Common was recommended. Officers were elected.

3rd.—At a meeting of Building Trades Council, Boston, addresses were made in favor of the principle of arbitration and conciliation.

4th. - At a meeting of Spinners' executive committee, Fall River, a deputation from several mills urged that the employes of those mills that have been shut down for a longer period than four weeks be allowed stoppage pay. The matter was referred to the general meeting to be held later. The cases of employes who were receiving stoppage pay before the curtailment began were considered and the committee agreed that allowance to such persons should be renewed after the four weeks' suspension expired. --- Weavers' executive committee, Fall River, accepted usual committee reports and a communication from the A. F. of L. calling attention to non-union made cigars and bicycles. --- Central Labor Union, Lawrence, admitted delegates from Stone Masons and Plumbers Unions. A communication from the secretary of the A. F. of L. was read which contained information in regard to "sweat-shop" cigars represented as union made. The trades union circle check was discussed and the secretary of the C L. U. was instructed to seek further information regarding the system. The building committee reported that it had been doing some work on the contracts being given out by the city government, and that the employing of union men and citizens on such work would be urged with all possible force. - State Branch of the A. F. of L. held its eleventh annual convention in Worcester. There were in attendance 40 delegates from the principal cities of the State, representing 90,000 wage workers, 1,500 of whom were women. The president reported success in the more complete organization of the shoe making and baking trades; the organization of other crafts; and a steady increase in membership during the past year. The appointment of a committee to further the cause of the label and the sale of union made products was recommended; and another to report upon some plan of action for the State Federation of Labor, to assist in making the shorter working day movement a complete success. The legislative committee reported efforts made to defeat the blennial election amendment and recommended further endeavor in that direction. Favorable action was taken on the following bills by the State Legislature:

The sanitary inspection of bakeshops.

The weekly payment law.

The joint collection of debts for labor.

The preference of employment of citizens upon public work.

The placing of traversing machinery in such a manner as to allow proper space.

Permitting the reports of inquests to be used in evidence in cases of death by street or steam railroads.

Preventing overtime working of women and children.

Continuance of agitation for the enactment of the following laws was recommended:

A shorter working day for public employés.

Compelling contractors on work for city or Commonwealth to observe conditions of employment obtaining when city or Commonwealth employed workmen direct.

The abolition of contract system upon public work.

That prison made goods should be so marked.

Further restriction of hours of labor for women and children.

The extension of factory acts to mercantile establishments.

The raising of the school age to 16 years.

The appointment of a committee to investigate the care of children of the State in reformatory and charitable institutions was recommended. The position taken by the last convention of the A. F. of L. that party politics should have no place in the convention was endorsed. Several strikes were endorsed and officers elected.

5th.—Lasters Union 39, B. & S. W. U., Brockton, expelled one member and 29 others withdrew.——Slasher Tenders' executive committee, Fall River, transacted routine business and considered advisability of paying members who had been idle longer than four weeks.

6th. — National Trade Assembly 231, Garment Workers of North America, held eighth annual convention in Boston. Resolutions were adopted thanking Boston Clothing Cutters and Trimmers Union for courtesies. Officers were elected. — Chase Lasters Protective Union, Brockton, decided to close the charter list of the union and institute a system of monthly dues. An address was made by the president. — Boot & Shoe

Workers Union, Milford, held mass meeting and considered cause of trouble at factory of Colburn, Fuller, & Co.

7th. — Railroad Men's Assembly 1741, K. of L., Boston, installed officers, admitted six new members, and re-instated four. It was voted to parade on Labor Day with District Assembly 30.

9th.—At a meeting of Building Trades Council, Boston, it was decided to make further effort to induce the Master Builders Association to submit labor difficulties to arbitration.—Sanitary and Street Cleaning Department Workers Union 6064, A. F. of L., Boston, elected officers and admitted seven new members.—At a meeting of Central Labor Union, Brockton, delegates from several unions reported that the unions represented by them had voted to contribute \$2 each for the purpose of employing counsel in the cheaper street car fare agitation.

10th.—Carders' executive committee, Fall River, granted \$4 in accident allowance.

Heelers and Cutters Unions, B. & S. W. U., Lynn, each voted to levy a per capita tax of 25 cents weekly in aid of strike.

11th. — Carpenters Union, Lawrence, voted to participate in the Labor Day parade and admitted four new members.

12th. — Bakers and Confectioners Union 4, Boston, adopted resolution thanking member of the Legislature for efforts in securing the sanitary inspection of bakeshops. —
Spinners Union, Fall River, held regular monthly meeting. The secretary reported that he had sent pamphlets concerning the labor laws of Massachusetts to a student of economics of Tokio, Japan, who intended to employ this material in improving the condition of labor in the textile districts of that country. Two members were elected to the executive committee for six months. A death benefit of \$50 was granted. It was decided that all members who lost more than four weeks' pay should be paid according to the scale of allowance for ordinary stoppage of machinery. — Carders Union, Fall River, decided to grant one week's pay to members who had been idle more than four weeks. — Weavers Union, Fall River, granted \$60 in death benefit. — At a meeting of the local board of the Boot & Shoe Workers Union, Lynn, it was decided to open a free dining room for the strikers of the Thomas G. Plant Co. who might need such assistance.

13th. — Journeymen tailors of Lowell held mass meeting under the auspices of the Journeymen Tailors Union of America. The general organizer made an address and it was decided to reorganize the local union.

14th. - Waiters Alliance, Boston, held special meeting and elected officers.

16th.—Central Labor Union, Boston, admitted delegates from the Water Works Department Union, United Hatters Union, and Steamfisters Union 22. Resolutions were adopted declaring that the Central Labor Union would continue the agitation for three cent fare on the West End Street Railway. It was voted to assist the hoisting engineers who were out on strike by remitting dues to the C. L. U. It was also voted to assist the striking shoe workers of Lynn. Resolutions were adopted endorsing a strike inaugurated by the Waiters Alliance. The municipal legislative committee that had been previously instructed to investigate the cause of the accident at City Point reported that the loss of life was due to faulty construction of a float stage and improper pile-driving. The contract system on public works and the methods of the park commissioners were discussed and it was urged that an investigation be made.

17th. — Carders' executive committee, Fall River, granted \$4 in accident pay. Carpenters Union, Lawrence, admitted 12 new members and discussed new wage scale to be presented to employers. — Journeymen Plumbers Union, Waltham, discussed the appointment of an assistant inspector of plumbing. It was decided that there had been a violation of the law of 1894 regulating such appointment.

18th. — At a special meeting of the executive council of the clothing trade, Boston, the question of a strike was considered and it was decided to lay it on the table. —— Spinners' executive committee, Fall River, paid \$391 in curtailment allowances and \$75 in death claims.

19th.—Carders Union, Fail River, held special general meeting and decided to grant week's allowance to all members who had been idle five weeks or more.—Building Laborers Union, Lawrence, elected president and admitted eight new members.

20th. - Central Labor Union, Lynn, elected officers.

**Ret. — At a meeting of the Retail Grocery and Provision Clerks Union, Boston, it was decided to extend the early closing movement throughout the State. Resolutions were adopted endorsing the early closing movement of Barbers Union 182 and endorsing the labels of Cigar Makers Union, Boot and Shoe Workers Union, and Garment Workers Union. Twenty new members were admitted. — Journeymen Plumbers Union, Boston, elected delegates to the annual convention of the National Plumbers Union.

23rd.—At a meeting of Building Trades Council, Boston, an address was made by a representative of the locked-out employés of a manufacturing firm in Cleveland, Ohio, and resolutions were adopted calling upon organized labor to support them. The municipal legislative committee was instructed to investigate a certain section of the subway and ascertain whether the law in regard to employment was being complied with. The organizing committee was instructed to organize the building laborers of South Boston.

—Sanitary and Street Cleaning Department Workers Union 6064, A. F. of L., Boston, installed officers and admitted six new members. It was voted to parade with the Central Labor Union on Labor Day. —Freight Handlers Union 6527, Boston, composed of employés of New York, New Haven, and Hartford Railroad decided to parade with the C. L. U. on Labor Day. Nine new members were admitted. —Water Department Workers Union 6356, A. F. of L., Boston, admitted five new members.

34th. — An assemblage said to number 3,500 persons representing labor organizations of Lynn held parade and open air mass meeting.

85th.—Typographical Union 13, Boston, decided to parade on Labor Day.—Stone Pointers Protective Union 6775, A. F. of L., organized in Boston. Officers were elected and installed and an organizing committee chosen to explain objects of the union to all members of the craft.—Painters Union 11, Boston, admitted 16 new members.—Carpenters Union 33 and Printing Pressmen's Union 67, Boston, voted to parade on Labor Day.—Spinners' executive committee. Fall River, paid \$\frac{1}{2}\$! 65 in stoppage pay.

26th.—The Joint Shoe Council, Brockton, was addressed by the president of the Boot & Shoe Workers Union who urged more systematic organization.—Loom Fixers' executive committee, Fall River, prepared recommendations to be presented at regular meeting.—Carders' executive committee, Fall River, paid \$560 in curtailment allowances.

27th.—At a meeting of Chase Lasters Protective Union, Brockton, the committee on revising the constitution made final report. Recommendations made by it were considered and adopted. A system of monthly payments was adopted and a committee on Labor Day appointed.—Horseshoers Union 64, Lawrence, held meeting and voted not to parade on Labor Day.

Weavers Union, Fall River, at general meeting voted to pay financial members, who had been out of work four weeks, one week's stoppage pay. — Spinners Union, Fall River, paid curtailment money amounting to \$800. — At a meeting of Central Labor Union, Lynn, a committee was appointed to prepare a city ordinance, to be presented to city authorities, prohibiting sweating shops in Lynn. — Women Stitchers Union, Lynn, held mass meeting and admitted 26 new members. An address was made by the president of the B. & S. W. U. and it was voted to hold a mass meeting later.

30th. — Bakers and Confectioners Union 4, Boston, held meeting for the purpose of agitation against unsanitary bakeshops. Several new members were admitted.

31st. — Garment Pressmen's Union 25, Boston, reorganized with 50 charter members. Officers were elected and it was voted to call mass meeting for purpose of more thorough organization. —— Spinners Union, Fall River, held special general meeting and voted to pay members who had been idle more than four weeks on account of curtailment \$4 per week.

SEPTEMBER.

1st.—Lasters Union 39, Brockton, held meeting and considered standing and condition of the union.—Spinners' executive committee, Fall River, received applications for curtailment pay from several persons who were not considered entitled to it.—Weavers' executive committee, Fall River, received several doubtful applications for curtailment pay which were referred for action to next general meeting.—Carders Union, Fall River, paid out \$400 in curtailment allowances.—Central Labor Union, Haverhill, held meeting and perfected arrangements for celebration of Labor Day.—Central Labor Union, Lawrence, admitted delegates from Iron Moulders and Grante Cutters Unions. A member of the National Union of Tobacco Workers made address on work of organizing in that trade being done throughout the country.—Striking operatives of Thos. G. Plant Co.'s factory, Lynn, were addressed by local labor leaders. The weekly strike allowance was distributed and reports showed the joint council to be in daily receipt of money from organized labor for carrying on the strike.

2nd. — Loom Fixers Union, Fall River, voted to pay \$5 to all members who had been idle four or more weeks. — Executive committee of Slasher Tenders and Drawing-in Girls Union, Fall River, voted to recommend to general body that the funds of the union be left intact. — A mass meeting of the unorganized women stitchers was held in Lynn

under the auspices of the Women Stitchers Union, B. & S. W. U. Addresses were made in favor of more thorough organization among women workers.

3rd. - Chase Lasters Protective Union, Brockton, held meeting for purpose of considering appropriate celebration of Labor Day. Four new members were admitted.

6th.—Central Labor Union, Brockton, received new delegates from the Journeymen Carpenters Union. It was decided that the local representative of the Associated Press should be excluded from the meetings of the union. The committee appointed to investigate a boycott instituted by the Laborers Union recommended that the same be endorsed. The working committee was instructed to investigate the case of a local clothing dealer who advertised union clothing, and also to ascertain the number of local dealers who handled goods manufactured by the Detroit Stove and Range Company. It was decided that during the autumn, winter, and spring meetings should be held once a week and that some economic subject should be discussed at the close of the business meeting on alternate Sundays.

7th. — The trades unions of Boston observed Labor Day by participating in a parade. There were in line about 13,000 men, who represented the principal labor organizations of the city. The first division consisted of 1,500 men distributed among the following unions: District Assembly 30, K. of L.: O'Connell Assembly 7174, K. of L.: Noddle Island Assembly 5789, K. of L.; Steam Railroad Men's Assembly 1741, K. of L.; Ben Franklin Assembly 5463, K. of L.; and City Employés Assembly 2541, K. of L., of Newtonville. The second division numbered 3.168 men, and the organizations represented were as follows: Holsting and Portable Engineers Union; Sheet and Plate Glaziers Union; Building Laborers Union 15: Building Laborers Union 10: Carpenters Union 67: Carpenters Union 33: Painters and Decorators Union 11: Housesmiths Union 1: Roofers Protective Union: Boston Journeymen Plumbers Union; Boston Plasterers' Tenders Union; and Boston Journeymen Steamfitters Union. The third division was composed of 8,662 men, representing the following organizations: United Hatters Union; Freight Handlers Union 6527: West End Street Railway Laborers: Firemen's Protective Union: Boston Paying Department Union 6751; Typographical Union 18; Printing Trades Council; Rockwell & Churchill Chapel; Boston Herald Chapel; Boston Journal Chapel; Boston Post Chapel; Globe Pressmen's Union; Globe Stereotyping Department; Boston Globe Mailers Union; Boston Globe Compositors Department: International Bookbinders Union: Boiler Makers Union 9; Core Makers Union; Brass and Iron Moulders Union; Bakers and Confectioners Union 4; Sanitary and Street Cleaning Department Union 6064; Brewers Union 14; Brewers Union 29; Bottlers and Drivers Union; Boston Water Department Workers Union 6356; Horseshoe Nail Makers Union; Electrical Workers Union 35; Boston Pavers Union 1; Freight Handlers Union, A. R. U.; and Building Laborers Union. --- Labor Day in Brockton was observed by open meetings at the headquarters of the several unions. Addresses were made on labor topics. --- At Fall River, there was a parade of about 500 men, representing the various textile unions, and the Stone Cutters, Bricklayers, and Plasterers Unions. - At Haverhill, the following unions participated in a parade: Haverhill Central Labor Union, Lasters Union 26, and Turned Workmen. --- At Lawrence a parade was held under the auspices of Lawrence Central Labor Union in which 1,000 men participated, representing the following unions: Printers, Carpenters, Mule Spinners, Cigar Makers, Granite Cutters, Iron Moulders, Stone Masons, Plumbers, Painters, Plasterers, Weavers, Bakers, and Machinists. --- Meetings and parades were also held in other cities and towns of the State.

9th. — Spinners Union, Fall River, held regular meeting. Reports of officers and committees were read and accepted. Delegates were elected to the annual convention of the National Mule Spinners Association; also, two members to the executive committee and one anditor. There was paid out in regular stoppage pay, \$79.65. — Carders Union, Fall River, discussed grievance by which six speeder tenders were thrown out of employment. It was decided that they should be put upon stoppage pay. — Carpenters of North Adams held mass meeting and were addressed on labor topics.

10th.—Twenty-five stenographers of Boston formed Boston Stenographic Association. Officers were elected.—Chase Lasters Protective Union, Brockton, admitted five new members.—Weavers Union, Fall River, held regular meeting and elected two members to the executive committee. It was voted that doubtful claims for benefits should be referred to the executive committee and that that committee should have power to act.—Central Labor Union, Lynn, discussed project of establishing a shoe manufacturing business in order to provide work for unemployed shoe workers.

11th. — Local Assembly of Edgemakers, K. of L., Lynn, voted to surrender its K. of L. charter and join the Boot & Shoe Workers Union.

13th. — At a meeting of Building Trades Council, Boston, it was decided to assist the grocery and provision clerks in their early closing movement by patronizing only such retail merchants as employed members of the union. The strike of the plate glaziers was endorsed. Delegates were admitted from Painters Union 11 and Carpenters Union 33. — Freight Handlers Union 6527, A. F. of L., Boston, endorsed the strike of shoe workers against the Thos. G. Plant Co.

14th.—At a meeting of Slasher Tenders and Drawing-in Girls Union, Fall River, it was voted to endorse the recommendation of the executive committee to keep the funds of the union intact during the depression.—Carders' executive committee, Fall River, considered alleged grievances in regard to falling off in pay and instructed secretary to investigate the charge. The organization of a Central Labor Union was discussed.—A mass meeting of shoe workers was held in Randolph. Addresses were made on the benefits of organization and it was decided to form a mixed union of Boot & Shoe Workers Union of America.—A public meeting of locomotive engineers was held in Worcester under the auspices of Worcester Division 64, Brotherhood of Locomotive Engineers. Addresses were made on the benefits of organization.

15th.—Lasters Union No. 39, Brockton, held semi-annual election of officers.—At a meeting of Spinners' executive committee, Fall River, the rule was adopted that no member should be entitled to stoppage pay who had worked three or more days in a week.—Weavers' executive committee, Fall River, considered the formation of a Central Labor Union favorably.—Carders' executive committee, Fall River, paid out \$2.50 in curtailment allowances.—Spinners Union, New Bedford, elected delegates to convention of National Spinners Association. The extent to which stoppage money should be paid to members was discussed.

16th. — Weavers Union, Fall River, held special general meeting and elected collector. — Journeymen Bakers Union, Lawrence, held meeting and transacted routine business. — Printers of Pittsfield held meeting and considered matter of organizing a union. It was decided to organize at a future meeting.

17th. - Chase Lasters Protective Union, Brockton, held regular meeting at which several applications for membership were received.

18th. — Garment Pressmen's Union 25, Boston, held meeting and considered grievances. It was decided to ask employers to restore the former rate of wages. — Granite Cutters Union. Fall River, transacted routine business.

20th.—Central Labor Union, Boston, admitted delegates from Sanitary Workers Union 6064, Stereotypers Union, Granite Cutters Union, Machinists Union 264, Steamfitters' Helpers Union, Core Makers Union, and Sewer Department Workers Union 6769. The special committee on brewers grievances reported that all important questions between employer and employé had been settled satisfactorily for a term of three years. The employment of laborers on the subway more than nine hours per day was considered and the municipal committee was instructed to secure the enforcement of the statutory law on the employment of labor. The educational committee reported having received several valuable books on arbitration and employers' liability. The delegates of the various organizations were directed to secure the enrollment of wage-workers under the new registration law.

21st. - Carders' executive committee, Fall River, granted \$4 on account of accident.

22nd.—Spinners' executive committee. Fall River, ordered the per capita tax, amounting to \$97.50, to be paid to the National union. A motion was adopted that the local delegates to the National convention should ask for a remission of the per capita tax owing to the disbursement of large sums of money on account of the depression in business.—

At a meeting of Weavers' executive committee the financial statement showed that during past week curtailment allowances amounting to \$1,232.13 had been paid. It was voted to recommend to next general meeting the appointment of delegates to act in conjunction with other labor organizations for the formation of a central labor union.—Printers of Pittsfield held meeting and organized a typographical union with 20 charter members; officers were elected.

23rd.—At a meeting of Slasher Tenders' executive committee it was voted to recommend to the general body the appointment of delegates to act conjointly with representatives of other labor organizations in the formation of a central labor union.—The journeymen barbers of Lawrence held meeting and organized a union with 20 charter members. Officers were elected.

24th.—At a mass meeting of ready made garment workers, Boston, it was voted to re-organize under the United Garment Makers Union of America.——Carpet layers employed in carpet and furniture houses of Boston met and considered the advisability of forming a union.——Cornice Workers Union 1 and 2, Boston, reorganized as Union 17,

Amalgamated Sheet Iron and Metal Workers Association. — Master Salimakers of Gloucester formed a permanent organization.

**R74h. — Building Trades Council, Boston, held semi-annual election of officers. — At a meeting of Freight Handlers Union 637, A. F. of L., Boston, a special committee reported that every member had registered under the new registration law. Three new members were admitted. — Typographical Union 18, Boston, discussed the book and job scale and decided to defer final action until the next meeting. The committee appointed to recount the vote on the sick and death benefit proposition reported the plan was approved instead of being defeated. — Brewers Unions 14 and 29, Boston, decided to make effort to drive non-union products out of city.

28th. — Iron moulders of Worcester held meeting at which addresses were made on the benefits of organization.

29th. — Paper hangers of Roston organized a union under the jurisdiction of the Brotherhood of Painters and Decorators of America with 200 charter members.

OCTOBER.

1st.—Between two and three thousand garment workers of Boston, organized in the various unions, inaugurated a strike in order to effect renewal of former agreement.—

Stone cutters of Boston held special meeting and protested against the granting of contract for work at State House to non-resident of State who employed non-union labor.

44h.—At a meeting of Central Labor Union, Boston, the educational committee reported insufficient accommodation for children of school age. The following resolution was adopted after debate:

"Resolved, That the educational committee communicate with the Mayor, informing him of the lack of school accommodations, condition of school buildings, and the impression of the members of organized labor that the children of the poor are being deprived of an education."

The president of the Shop Assistants Union of London, England, made address on the condition of labor in Europe and America. A resolution was introduced and referred to the Building Trades Council calling for an amaignmation of the two central organizations of labor. — Garment Makers Unions, Boston, involved in a strike, held mass meeting and endorsed policy mapped out by the strike committee. — Spinners' executive committee, Fall River, held special meeting and considered the double time table in force at nills of Parker Manufacturing Co. It was decided that a general adoption of the system would be detrimental to the interest of operatives. — At a meeting of Central Labor Union, Lawrence, the proposition for erecting a building for the use of the labor organizations was discussed. It was alleged that the factory laws were being violated in the Washington Mills by the removal of seats provided for the use of female operatives. The legislative committee was ordered to make an immediate investigation.

5th.—Steamfitters Union 22, Boston, endorsed union stamp of Boot & Shoe Workers Union of America, and members pledged themselves to patronize only such shoe stores as handled union-made goods.—Journeymen Custom Tailors Union 12, Boston, was addressed by the general organizer on the growth of trade unionism and organization. It was decided to hold a series of public meetings and a committee was appointed to make necessary arrangements.—Bricklayers Union 3, Boston, endorsed label of Boot & Shoe Workers Union.—Spinners' executive committee, Fail River, paid curtailment allowances.

6th.—Weavers' executive committee, Fall River, accepted reports and granted several applications for transfers.——Carders' executive committee, Fall River, paid out \$8 in curtailment pay.

7th. — Carders Union, Fall River, held monthly meeting and elected five members to represent the union in the conference in regard to forming a central labor union. It was voted to grant a week's pay to all operatives who had been idle four weeks on account of curtailment of production.

8th. — National Mule Spinners Association held fourteenth semi-annual convention in Boston, October 6, 7, and 8. There were present 35 delegates representing 20 textile manufacturing districts. Reports submitted concerning the condition of trade showed that the textile industry had suffered from the depression in business. The secretary reported that during the past six months ten new unions had been organized. The treasurer's report showed that the national funds had increased. Following resolutions were adopted:

That indicators for the measuring of varns be placed on the frames.

That organizations of back boys, doffers, and piecers should become members of

the National Association upon payment of a per capita tax; and that they should be paid two-thirds of strike benefits.

That a law be enacted requiring all money in possession of a local union at time of disbandment be paid into the treasury of the National Association; but should the union revive within a specified time the money to be returned, otherwise to be used for the founding of new unions.

Excessive hours of labor in Maine was discussed and \$50 was appropriated for agitating a reduction in working time. It was voted that an effort should be made to organize the cotton spinners of the South. Officers were elected. It was decided that the next convention should be held in Boston, October, 1897. — Chase Lasters Protective Union, Brockton, held regular meeting and admitted eight new members. The union declared itself opposed to the reduction of wages. — Weavers Union, Fall River, held regular meeting. A resolution was adopted requesting all members to purchase only shoes bearing the label of the B. & S. W. U. Three members were elected to the executive committee and five members as delegates to participate in the formation of a central labor union. Overtime work at certain mills was discussed and it was decided that an attempt should be made to put a stop to it. — Machinists' Union 17, Lawrence, held regular meeting and closed charter with 100 members. Seventeen new members were admitted.

11th. — At a meeting of Building Trades Council, Boston, the construction and condition of the public school-houses of Boston were discussed. Delegates present claimed that the construction was faulty and that lives were in danger from unsafe steam boliers in charge of incompetent persons. Fire escapes and the system of inspection were also declared inadequate. It was alleged that the faulty construction was due to the giving out of work by contract and the municipal committee was instructed to work for the abolition of the contract system on public work. A protest was made against the passage of amendment to the State constitution providing for blennial elections. Committees were announced as follows: on credentials; on finance; on organizing; and on ways and means. — Freight Handlers Union 6527, Boston, listened to address in opposition to biennial elections.

12th. — Federation of Spinners and Carders Unions, Fail River, agreed to forego the payment of any quarterly assessment owing to disbursements by the two organizations on account of the stoppage of the mills.

13th. — Cooks and waters of Boston formed a local alliance with 35 charter members. Officers were elected and installed. — At a meeting of Spinners' executive committee, Fall River, the secretary reported having investigated grievances and that additional mules had been started up in the King Philip Mills. Applications for stoppage pay from spinners of American Linen Co. were granted. — Weavers' executive committee, Fall River, allowed several applications for transfers. — Carders' executive committee, Fall River, paid out \$800 in curtailment allowance.

14th. — At a meeting of Loom Fixers Union, Fall River, several members complained of high speed of machinery and poor stock in certain mills. The secretary was directed to make an investigation. Fifty dollars was paid in stoppage benefits.

15th.—Chase Lasters Protective Union, Brockton, admitted several new members and received additional applications for membership.—Delegates from different labor organizations of Fall River met and formed a local Central Labor Union. Temporary officers were chosen and the secretary was instructed to call another meeting and invite all local labor unions to send delegates.

16th. — Sewer Division Union 6759, A. F. of L., Boston, held meeting and admitted 33 new members

18th. — Central Labor Union, Boston, admitted delegates from International Machinists Union 449, Electrical Workers Union 35, Grocery and Provision Clerks Union 160, and Mattress Makers Union 52. It was reported that every labor organization in the city had adopted resolutions urging defeat of the biennial resolve. The overtime working of brewery employés was referred for adjustment to the special committee having grievances in charge. The educational committee called attention to the unsafe boilers used in school-houses. This matter was referred to a special committee with instructions to make a thorough investigation. Delegates reported that the Bakers International Union had adopted a new label. — Central Labor Union, Haverhill, held regular meeting and transacted routine business. — Central Labor Union, Lawrence, held regular meeting. Delegates were present from the following unions: Building Laborers, Iron Moulders, Plasterers, Bakers, Mule Spinners, Plumbers, Journeymen Barbers, Carpenters, Typographical, Cigar Makers, Theatrical Mechanics, Stone Masons, and Granite Cutters. Delegates were instructed to inform respective unions of the existence of a new union of journeymen barbers and to urge members to patronize only those shops that displayed

the union card. It was reported that an effort to organize the painters, top roll coverers, and brewery workers was meeting with success. The proposition to erect a building for the use of trades unions was discussed and delegates present gave assurances of help from their respective organizations. — Amalgamated Carders of America held quarterly meeting in New Bedford. It was decided to proceed with the organization of the districts surrounding Fall River and New Bedford. A communication was received from Lowell spinners requesting a delegation to be sent to organize the carders in that place. A special committee was appointed to attend to the matter.

19th. - Carders' executive committee. Fall River, paid \$8 in accident claims.

20th. — Weavers' executive committee, Fall River, voted to pay weavers of Conanicut Mills one week's pay according to scale. One application for transfer was allowed and report of secretary in relation to settlement of strike at mills of Stevens Manufacturing Co. was accepted as satisfactory. — At a general meeting of Slasher Tenders and Drawing-in Girls Union, Fall River, the delegates chosen to represent the union in the Central Labor Union, temporarily were made permanent.

21st. — At a meeting of Loom Fixers' executive committee, Fall River, the loom fixers employed at Davol Mills reported their grievances satisfactorily settled. — Lynn & Boston Railway Employés Union dissolved.

\$24.— Chase Lasters Protective Union, Brockton, held regular meeting and admitted several new members. It was reported that other Chase Unions were to be formed.

25th. — Building Trades Council, Boston, admitted delegates from Building Laborers Union 19 and Sheet and Plate Glaziers Union. Resolutions were adopted protesting against any further appropriation of public funds for armories. —— Freight Handlers Union 6527, A. F. of L., Boston, composed of employés on Providence Division of N. Y., N. H., & H. R., held meeting at which complaints were made of insufficient time for meals and an unreasonable amount of labor. The grievance committee was instructed to make an investigation and endeavor to make a settlement. —— Machinists Union 264, Boston, adopted resolutions denouncing biennial elections.

25th. — Twenty-six delegates representing the Spinners, Weavers, Carders, Slasher Tenders, Loom Fixers, Clerks, Bakers, and Granite Cutters Unions of Fall River met and completed organization of a Central Labor Union. Officers were elected and appointed as a committee to draft a code of by-laws. Delegates were chosen to visit other labor organizations and request them to send representatives to the C. L. U.

26th. — Carders' executive committee, Fall River, met and discussed complaints from employés of Fall River Iron Works Co. The secretary was ordered to make an investigation. Four dollars was granted in accident pay.

27th. — Mule Spinners Union, Lowell, held regular meeting and discussed reduction of wages in other cities.

384h. — Journeymen Barbers Union, Lawrence, held regular meeting and admitted seven new members.

20th. Loom Fixers Union, Fall River, at regular meeting accepted recommendation of executive committee to elect permanent secretary. A committee was appointed to define duties of such officer.

NOVEMBER.

1st.—Central Labor Union, Boston, admitted delegates from Machinists Union 449, Stone Pointers Union, Typographical Union 18, Bakers and Confectioners Union 4, and Retail Grocery and Provision Clerks Union. A delegate was elected to the convention of the A. F. of L. Resolutions were adopted urging voters to oppose the biennial election amendment; also requesting the joint municipal legislative committee of the Central Labor Union and Building Trades Council to request city officials to have all future contracts for public work drawn so that contractors shall be obliged to pay workmen the same rate of wages as is paid by the municipality for similar work. A complaint against the employment of non-union waiters was referred to the organizing committee. Upon request of Building Trades Council, a committee was appointed to investigate the alleged use of unsafe steam-boilers in school-houses.——Central Labor Union, Lawrence, admitted delegate from Typographical Union. Special committee appointed at previous meeting to investigate the consignment of "sweat shop" goods from New York to that city, reported that the firm had already returned the goods, having received notice from the Garment Workers Union of New York.

2nd.—Journeymen Plumbers Union, Worcester, inaugurated a strike because of refusal of master plumbers to discharge boys employed as helpers.

3rd. -- At a meeting of Weavers' executive committee, Fall River, complaints were received that a system of fining had been instituted at one of the mills. The secre-

tary was directed to investigate the matter. It was voted that all payments to members on account of curtailment should be stopped. — Spinners' executive committee, Fall River, paid out \$30.05 in stoppage pay. The secretary received word from the president of the A. F. of L. that the organization of the South was about to begin.

54h.—At a regular meeting of Chase Lasters Protective Union, Brockton, communications were received from shoe manufacturing centres relative to the organizing of Chase Unions. Several new members were admitted.

Sth.—At a meeting of Building Trades Council, Boston, the municipal committee was directed to ask the co-operation of all labor organizations in an effort to induce the school committee to have all school-houses constructed and all repairs on school-houses performed exclusively by union men. New delegates were admitted from Roofers Protective, Steamfitters, and Glaziers Unions.—At a meeting of the new Central Labor Union, Fall River, ten unions were represented by 38 delegates. The sub-committees on by-laws and organization made partial reports.—Iron Moulders Union, Worcester, held meeting and outlined work for winter. It was decided to hold a course of lectures and also to hold meetings open to non-union as well as union moulders, at which topics relating to the trade should be discussed.

94a. — Massachusetts Bricklayers Union held semi-annual conference in Springfield. Twenty delegates were present and represented the principal cities of the State. The eight-hour question was discussed and a controversy between the Stonelayers and Bricklayers Unions of Brockton was settled.

10th.—Painters Union 11, Boston, held meeting at which it was alleged that contractors were attempting to abolish daily and weekly work and substitute a system of sub-contract letting. The practice was condemned and a resolve was adopted instructing business agent to order a strike on all work on which this system was imposed.——Men employed on Division 3, West End Street Railway, held mass meeting and decided to demand nothing new in wages or hours but to insist that the agreement for the past two years should be continued.——At a meeting of Spinners' executive committee, Fall River, the secretary reported having investigated several grievances. It was reported that certain mills in New Bedford ran until 10 o'clock P.M.

11th.—At a meeting of Carders Union, Fall River, three members were elected to the executive committee and the question of increasing the levy was discussed.—At monthly meeting of Spinners Union, Fall River, it was reported that during the past month \$401.88 had been paid for stoppages of machinery and \$100 in death benefits.

12th. — At monthly meeting of Weavers Union, Fall River, it was voted to pay \$8.06, the remainder of the "Amalgamated" fund, to the Central Labor Union. It was decided that after December 1, no more money should be paid out of the treasury on account of stoppage of mills. — Chase Lasters Protective Union, Brockton, adopted new constitution. Several new members were admitted. — Machinists Union, Lawrence, admitted 22 new members and received 14 applications.

13th. - Paving Department Workers Union 6751, A. F. of L., Boston, elected delegate to the convention of A. F. of L.

15th.—At a meeting of Central Labor Union, Boston, the organizing committee reported having organized the Stationary Engineers. The educational committee reported that the number of teachers in the night schools was insufficient for the classes. The legislative committee was requested to endeavor to have a law passed causing the placing of constitutional amendments on ballots. Trade labels were endorsed and the support of the union was pledged to the barbers in their demand for a fixed scale of wages.

16th. — Carpenters Union 33, Boston, held meeting at which addresses were made on the eight-hour working day. —— Boston Bartenders Benevolent Association was addressed on the advisability of local unions joining the national trade organizations. After discussion it was voted to apply for a membership charter in the Hotel and Restaurant Employés and Bartenders National Alliance. —— Journeymen Barbers Union, Lawrence, admitted several new members. —— Iron Moulders Union, Lowell, held mass meeting and was addressed on the subject of organization. —— Shoe workers of North Adams held mass meeting in the interest of organization.

17th. -- Lasters Union 39, Brockton, elected officers and delegates to the A. F. of L. convention.

18th. — Electrical Workers Union 35, Boston, discussed the protection of life from incompetency by means of a uniform license law in all the States and territories of the United States. It was voted that the trades unions should request the Legislatures to enact a license law for electric wire-men. —— Slasher Tenders Union, Fall River, held regular meeting at which committee reported progress in organization of Central Labor Union. Two new members were admitted. —— Loom Fixers Union, Fall River, received

twenty applications for membership. A complaint was received of a reduction in wages which the secretary was directed to investigate.

19th. — Chase Lasters Protective Union, Brockton, admitted several new members. ——Laborers Union, Brockton, elected officers.

22md.—At a meeting of Building Trades Council, Boston, stonecutters complained of a violation of the State law in regard to the hours of labor and in the employment of non-residents and other than citizens upon the subway. The Paper Hangers Union asked assistance of the B. T. C. in effort to abolish system of charging extra fare for tools of trade. A special committee was appointed to lay matter before railroad officials.—At a meeting of Typographical Union 13, Boston, the proposition to have the city printing done in several offices instead of one was discussed and resolutions, protesting against any such change, were adopted. The proposition to levy an assessment upon members for purpose of erecting a hospital annex to a home for union printers was endorsed; also, the proposition for a nine-hour working day in all book and job offices.—Central Labor Union, Fall River, held meeting and voted to hold meetings monthly thereafter. The report of the committee on rules was accepted and ordered to be printed.

23rd. — Carders' executive committee, Fall River, accepted committee reports and paid out \$13 for accidents. —— Journeymen Barbers Union, Lawrence, admitted four new members. —— Employés of Bowler Bros., brewers, organized as Worcester Brewers Union 1.

\$44h. — Printing Pressmen's Union, Boston, adopted resolution denouncing proposition to make change in regard to city printing. — Spinners' executive committee, Fall River, paid out \$26.70 for accidents and stoppage allowance. Four applications for accident pay were received.

37th. -- Loom Fixers Union, Fall River, nominated officers for ensuing term and listened to appeal for aid from the Emergency Hospital.

20th. - Spinners Union, Fall River, during past month paid out \$100 in stoppage allowance.

DECEMBER.

1st. — Journeymen Barbers Union 182, Boston, held meeting and discussed cause of low wages in that trade and decided to demand an increase January 1. — Women employed in the bookbinding trade held meeting and were addressed on the subject of organizing. — Solefasteners and Edgemakers Union, Brockton, held joint meeting and elected new secretary.

smd. - Central Labor Union, Worcester, endorsed a local boycott and appointed committee to prepare public statement of the matter.

3rd.—Chase Lasters Protective Union, Brockton, held regular meeting, admitted one new member, and received several applications. The constitution as amended was adopted and ordered to be printed. Addresses were made on the growth of the union.

6th. - Central Labor Union, Boston, admitted delegates from Bookbinders, Stone Pointers. International Association of Machinists Lodge 264, Coopers Union 89, and Wakefield Rubber Workers. Violations of the factory laws of the Commonwealth in the employment of women and children were reported and resolutions were adopted calling for a better enforcement of such laws. Committee appointed at previous meeting to investigate the character of the boilers used for heating public schools, reported that the boilers were safe when in charge of competent engineers and firemen. Complaints were made against the subway contractors on account of the employment of labor on Sanday. The municipal committee was directed to secure a proper observance of the Sunday laws. The educational committee submitted plan for the instruction of wage workers upon economic subjects. It was voted to request a number of college professors, authorities upon economic subjects, to speak before the local unions in a series of meetings. The organizing committee reported having organized several new unions during the past week, and that several unorganized trades were in process of formation upon trade union lines. Fifty dollars were appropriated to assist the work of organizing. A "no-license" resolve was referred to the committee on resolutions which reported adversely on the matter. - Lodge 77, Bartenders National League, Boston, became connected with the A. F. of L .- Ben Franklin Assembly 5463, K. of L., Boston, admitted 14 new members and received ten applications. Resolutions were adopted recommending the abolition of the present contract system in city printing. --- At a meeting of Central Labor Union, Lawrence, the organizing committee reported having organized three new unions, Brewery Workers, Journeymen Tailors, and Boiler Firemen. -Typographical Union, Worcester, elected officers and admitted two new members.

8th. — Bookbinders Union 16, Boston, adopted resolutions approving the proposed division of the city printing contract. — Waitresses Alliance 7, Boston, held mass meeting in the interest of organization.

9th. — Executive council of National Mule Spinners Association met in Boston and considered proposed strike in mills of Chicopee and Holyoke. Resolutions were adopted disapproving of strike at that time. —— Executive committee of Central Labor Union, Boston, passed resolution in opposition to twenty years lease of the subway by the West End Street Railway Co. —— Spinners Union, Fall River, held regular meeting. Officers were elected and aid was voted to the Emergency Hospital. —— Executive meeting of Slasher Tenders Union, Fall River, received five applications for membership. —— Carders Union, Fall River, elected officers and voted aid to the Emergency Hospital.

10th. — Bookbinders Union 16, Boston, held public meeting at which speakers advocated that all books used in the public schools should be bound in union binderies. — Carpenters of Worcester formed a new union with 25 charter members. Officers were elected.

11th. — Paving Department Workers Union 9816, A. F. of L., Boston, elected officers. —— Local Union 19, Boot & Shoe Workers Union, Framingham, held public meeting at which speakers presented grievances of shoe workers. —— Joint Council, Boot & Shoe Workers Union, Lynn, representing eight local unions, held meeting and declared the strike against the Thomas G. Plant Co. still on, and passed resolutions thanking the labor organizations of the country for financial aid. —— Typographical Union 109, Pittsfield, accepted report of special committee and adopted new constitution and by-laws.

18th.—At a meeting of Bakers Union, Springfield, the State organizer made address on the necessity of organization and the use of union labels. Officers were elected.

13th.—At a meeting of Building Trades Council, Boston, complaint was made that few citizens were employed in the erection of municipal buildings. Resolutions were adopted calling upon the school committee to so draft contracts as to oblige contractors in the future to employ citizens. The proposition of having the Building Trades Council amalgamate with the Central Labor Union was voted upon adversely. A committee was appointed to investigate the advisability of having the Council co-operate with the iron moulders employed on structural work.—Freight Handlers Union 6537, Boston, admitted five new members.—Bakers Union, Brockton, held meeting and elected officers.—Brockton Lodge, United Workmen, admitted two new members.—Central Labor Union, Haverhill, was addressed in behalf of the new retail shoe store established by the Shoe Council. A committee was appointed to draft resolutions commending the store to laboring people.

14th.—At a meeting of Hoisting and Portable Engineers Union, Boston, complaint was made against a foreman employed on the subway who had discharged an engineer. Resolutions denouncing this action were adopted and a committee was appointed to investigate.

15th. — Pattern Makers Union, Boston, discussed the improvement of the foreign trade and adopted resolutions concerning it.

16th. — Loom Fixers' executive committee, Fall River, transacted routine business. A grievance was reported and the secretary was ordered to investigate. —— Carpenters Union 111, Lawrence, elected officers.

17th. — Mule Spinners Union, Chicopee, held meeting at which the secretary of the National Association of Mule Spinners was present and made investigation of cause of strike in mills of Dwight Manufacturing Co. — Union 19, Boot & Shoe Workers of America, Framingham, held public meeting at which addresses were made in the interest of organization.

20th.—Central Labor Union, Boston, admitted delegates from Barbers Union 183, Roofers Protective, and Garment Workers Unions. Delegates from Grante Cutters Union requested assistance in securing the municipal work in that trade for citizens. Similar requests were made from other organizations and the municipal legislative committee was instructed to make an effort to have all contracts for public work so drawn that contractors would be obliged to employ citizens on all municipal work. The secretary of the Boot & Shoe Workers Union addressed the meeting and requested support for the label of his organization. Delegates representing Cigar Makers Union 97 notified the body that the label law that had recently been enacted by the Legislature of Minnesota was superior to the law in this State as it gave labor organizations greater protection for their trade marks. The State legislative committee was instructed to assist all trades having a label to secure the enactment of a law similar to the Minnesota statute by the Legislature of this State. A committee was appointed to confer with brewers upon matters concerning that business and resolutions were adopted instructing members of organized labor

to patronize only such saloons as displayed the union card. — Bay State Lodge 6, Brother-hood of Boller Makers and Iron Ship Builders of America held semi-annual meeting. Reports showed the organization to be prosperous both in membership and finances. Officers were elected. — Union 250, American Railway Union, Boston, held meeting at which complaint was made that when traffic fell off old hands were discharged and upon a revival of business new men were employed. It was decided to hold a public meeting to further discuss the matter. — Central Labor Union, Lawrence, elected officers. Delegates from Barbers Union made favorable report concerning use of union card, and resolutions were adouted in regard to the use of non-union liquor.

21st.—At a meeting of Hoisting and Portable Engineers Union, Boston, a committee appointed at previous meeting to investigate a reported discharge of an engineer, reported the facts as presented to the organization true. Resolutions were adopted denouncing all attempts to reduce wages.—Bricklayers Union, Haverhill, met and considered revision of rules and by-laws. A committee was appointed to report on the subject at next meeting.—Carpenters of Worcester held meeting and considered organization on new lines.

23md. — Cigar Makers Union 97, Boston, elected officers. — Pattern Makers Union, Boston, discussed the question of establishing a dry dock at Charlestown at which the larger war vessels could be repaired. It was decided to call a conference of boiler makers, ship carpenters, calkers, machinists, riggers, moulders, core makers, brass workers, rope workers, marine engineers, and seamen to consider the matter. A committee was appointed. — Journeymen Barbers Union, Brockton, held semi-annual election of officers. — At a meeting of Weavers' executive committee, Fall River, complaints were made of poor material. — Spinners' executive committee, Fall River, paid out \$21.65 in stoppage allowance. — Local branch of International Association of Machinists, Lowell, held meeting for purpose of perfecting organization.

\$34.—Street Railway Men's Union, Boston, composed of employés of the West End Street Railway Co., held meeting and decided upon immediate strike in order to enforce recognition of the union. The strike went into effect on certain parts of the line on the 24th, but was not successful.—Loom Fixers Union, Fall River, elected officers.—Boot & Shoe Workers Union held a meeting in Rowley in the interest of organization.

27th. - Building Trades Council, Boston, admitted delegates from Roofers Protective Union. A committee was appointed to arrange for a meeting of the entire building trades of Boston in the interest of the eight-hour working day. --- Fourth semi-annual toint convention of Massachusetts and Rhode Island State Branches of Bakers and Confectioners International Union was held in Boston. Delegates present represented 1600 bakers and confectioners, a gain of 300 during past six months. Reports showed conditions of labor to be most favorable in Brockton. The executive board was directed to make an effort to organize every unorganized locality. Legislation on better sanitary regulations in bakeries was advocated, and it was voted to give the legislative body power to raise necessary funds to secure favorable legislation and for exposing unsanitary bakeries. --- Bakers and Confectioners Union, Boston, discussed general condition of city bakeries and reforms suggested. Seventeen new members were admitted and officers were elected. - Typographical Union 13, Boston, adopted resolution in favor of the abolition of the contract system in the department of public printing and the establishment instead of a municipal printing office. The proposed increase in postal rates on second class matter was condemned. A resolution was adopted expressing sympathy with the conductors and motormen of the West End Street Railway and another objecting to a twenty-year lease of the subway. - Freight Handlers Union 6527, A. F. of L., Boston, elected officers. — Bartenders Union, Boston, admitted new members. — Street Department Workers Union 6064, A. F. of L., Boston, admitted eight new members. Objections were made to system of numbered badges. --- Delegates representing ten organizations were present at a meeting of the Central Labor Union, Fall River. Copies of the new constitution were distributed. Delegates from the Barbers Union made complaint of non-union shops and members of organized labor were recommended to refuse patron-

394h.—Spinners' executive committee, Fall River, paid out \$10.65 for stoppage of machinery and \$4 for accidents.—Painters and Decorators Union, Worcester, held election of officers.—Carpenters of Worcester held a meeting and took necessary steps towards the formation of a new union.—Bricklayers and Plasterers Union, Worcester, held annual election of officers.

30th. — Spinners' executive committee, Fall River, discussed arguments used by Fall River manufacturers before the tariff committee. It was agreed that the principal reason why Americans were unable to compete with English manufacturers, was on account of high salaries paid officials.

LABOR LEGISLATION - 1897.

[CHAP. 52.]

RESOLVE TO PROVIDE FOR A SPECIAL REPORT ON THE VARIOUS METHODS OF EMPLOY-ING PRISONERS ON PUBLIC WORKS AND LANDS.

Resolved, That the general superintendent of prisons be directed to make an examination of the various methods of employing prisoners on public works and lands, and to submit a special report thereon to the general court in the month of February in the year eighteen hundred and ninety-eight. The said general superintendent, with the approval of the governor and council, may expend a sum not exceeding nine hundred dollars for carrying out the purposes of this resolve. [Approved April 21, 1887.

[CHAP. 105.]

AN ACT MAKING APPROPRIATIONS FOR CARRYING OUT THE PROVISIONS OF THE ACT RELATING TO THE EMPLOYMENT OF LABOR IN THE PRISONS OF THE COMMONWEALTH.

Be it enacted, etc., as follows :

SECTION 1. The sums hereinafter mentioned are appropriated, to be paid out of the treasury of the Commonwealth from the ordinary revenue, for the purposes specified, to meet expenses for the year ending on the thirty-first day of December in the year eighteen hundred and ninety-seven, to wit:—

For maintaining industries at the state prison, on the basis of the year eighteen hundred and ninety-six, a sum not exceeding one hundred thousand dollars.

For maintaining industries at the Massachusetts reformatory, a sum not exceeding fifty thousand dollars.

For maintaining industries at the reformatory prison for women, a sum not exceeding three thousand dollars.

SECTION 2. This act shall take effect upon its passage. [Approved February 26, 1897.

[CHAP. 161.]

AN ACT RELATIVE TO CO-OPERATIVE BANKS.

Be it enacted, etc., as follows:

No co-operative bank, nor any person acting in its behalf, shall take or receive a fee, brokerage, commission, gift or other consideration for or on account of a loan made by or on behalf of such corporation, other than appears on the face of the note or contract by which such loan purports to be made; but nothing herein contained shall apply to any reasonable charge for services in the examination of property and titles and preparation and recording of conveyances to such corporation as security for its loans. Whoever violates a provision of this section shall be punished by fine of not less than one hundred nor more than one thousand dollars. [Approved March 17, 1897.

[CHAP. 221.]

AN ACT TO AUTHORIZE THE CITY OF BOSTON TO ESTABLISH PUBLIC GYMNASIA. Be it enacted, etc., as follows:

SECTION 1. The city of Boston may establish public gymnasia, not exceeding one to each ward of the city, and may accept donations of lands or buildings fitted with gymnastic apparatus.

SECTION 2. This act shall take effect upon its passage. [Approved April 1, 1897.

[CHAP. 235.]

An act relative to the boston co-operative building company. Be it enacted, etc., as follows:

SECTION 1. All issues of the capital stock of the Boston Co-operative Building Company in excess of two hundred thousand dollars, made under the authority of chapter one hundred and eighty-four of the acts of the year eighteen hundred and seventy-two prior to the year eighteen hundred and ninety, amounting to nineteen thousand dollars in par

value, are hereby ratified and confirmed, and said stock so issued is made valid to all intents and purposes.

SECTION 2. This act shall take effect upon its passage. [Approved April 2, 1897.

[CHAP. 265.]

AN ACT RELATIVE TO THE LICENSING OF GAS FITTERS AND TO THE SUPERVISION OF THE BUSINESS OF GAS FITTING IN THE CITY OF BOSTON.

Be it enacted, etc., as follows:

SECTION 1. No person, firm or corporation shall engage in or work at the business of gas fitting in the city of Boston after the first day of October in the year eighteen hundred and ninety-seven, either as employer or as a journeyman, unless such person, firm or corporation has received a license therefor in accordance with the provisions of this act. The word "journeyman", as used in this act, shall be deemed to mean one who personally does any gas fitting or any work in connection therewith which would be subject to inspection under the provisions of this act.

SECTION 2. Every person, firm or corporation desiring to engage in the business of gas fitting in the city of Boston shall make application therefor to the building commissioner, and shall, at such time and place as may be designated by the board of examiners hereinafter provided for, to whom such application shall be referred, be examined as to his qualifications for such business.

SECTION 3. The board of examiners shall consist of the building commissioner, the chairman of the board of health, who shall be ex officils members of said board and serve without compensation, and a third member, to be chosen by the board of health, who shall be a practical gas fitter of at least five years' continued practical experience during the years next preceding the date of appointment. Said third member shall be chosen within thirty days after the passage of this act, for a term ending on the first day of May in the year eighteen hundred and ninety-eight, and thereafter annually; and he shall be allowed a sum not exceeding five dollars for each day of actual service, to be paid from the treasury of the city of Boston.

SECTION 4. Said board of examiners shall, as soon as may be after the appointment of said third member, meet and organize by the selection of a chairman and clerk, and shall then designate the times and places for the examination of all applicants desiring to engage in or work at the business of gas fitting in the city of Boston. Said board shall examine said applicants as to their practical knowledge of gas fitting, shall submit the applicant to some satisfactory form of practical test, and, if satisfied of the competency of the applicant, shall so certify to the building commissioner, who shall thereupon issue a license to such applicant, authorizing him to engage in or work at the business of gas fitting, first requiring him to register in the office of the said building commissioner his name, place of business or residence, license number, date of examination, and in what capacity licensed. In case of a firm or corporation, the examination of one member of the firm, or of the manager of the corporation, shall satisfy the requirements of this act. The fee for the license of any employing gas fitter shall be two dollars, and for a journeyman, fifty cents; and said license shall continue in force until revoked or cancelled, but shall not be transferable.

SECTION 5. The building commissioner shall appoint, after the first day of October in the year eighteen hundred and ninety-seven, such a number of inspectors of gas fitting as the board of examiners may from time to time determine. Said inspectors shall be practical gas fitters of at least five years' continued practical experience, and shall, before appointment, be subject to an examination before the civil service commissioners. The compensation of said inspectors shall be determined by the building commissioner, subject to the approval of the mayor; and such inspectors shall hold office until removed by said commissioner, with the approval of the mayor, for malfeasance, incapacity or neglect of duty. Said inspectors shall inspect all new work relating to gas fitting in new and in old buildings, the connections and use of such work, and shall report all violations of this act or of any act or ordinance relating thereto, which now exists or may be hereafter enacted or ordained; and they shall also perform such other appropriate duties as may be required by the building commissioner.

SECTION 6. Every licensed gas fitter shall display his license number conspicuously at his place of business.

SECTION 7. On and after the first day of October in the year eighteen hundred and ninety-seven no building shall be piped or fitted for gas, nor shall any repairs be made in such piping or fittings, nor fixtures placed, unless a permit shall be granted therefor by

the building commissioner. Every licensed gas fitter desiring to perform any work relating to piping or fitting a building for gas, or to repair gas piping or fittings, or to place fixtures therein, shall file an application therefor at the office of the building commissioner, giving the correct location, name and address of the owner, the intended use and material of the building, and a full and complete statement of the work proposed and material to be used, and shall, if required by said building commissioner, furnish a plan thereof, which shall be subject to his approval. All materials used and work performed under the provisions of this section shall be subject to such regulations as shall be made by the board of health and the building commissioner.

SECTION 8. No gas pipe which may be introduced into any building shall be let into the timbers, beams or girders, unless the same is placed within thirty-six inches of the end of said timber, beam or girder, and in no building shall the said pipes be let into the timbers, beams or girders, more than two inches in depth. No person shall disconnect or remove any gas meter, except the duly authorized representative of the gas company owning such meter.

SECTION 9. All gas brackets shall be placed at least three feet below any ceiling or woodwork, unless the same is properly protected by a shield, in which case the distance shall not be less than eighteen inches. Nothing in this act shall be construed to affect the operations of any gas company upon its own premises or upon its mains and service pipes.

SECTION 10. The board of health of said city by its inspectors shall from time to time, as it deems proper, inspect the gas fixtures and appliances in any building, and shall make such requirements relating thereto as it deems the public health requires, and the owner of such building shall comply with such requirements.

SECTION 11. Any person violating any of the provisions of this act shall be deemed guilty of a misdemeanor, and shall be subject to a fine of not exceeding one hundred dollars for each offence, and if such person has received a license under this act his license may be revoked by the building commissioner.

SECTION 12. The building commissioner shall include in his annual report to the city council a report of the proceedings of the building department under this act, and shall include therein a report of the board of examiners appointed under this act, giving their proceedings during the year ending on the first day of February.

SECTION 13. All acts and parts of acts inconsistent herewith are hereby repealed.

SECTION 14. This act shall take effect upon its passage, except so far as is hereinbefore otherwise provided. [Approved April 10, 1897.

[CHAP. 278.]

AN ACT RELATIVE TO MARKING THE CARRYING CAPACITY OF LIGHTERS OR OTHER VESSELS EMPLOYED IN TRANSPORTING STONE, GRAVEL OR SAND.

Be it enacted, etc., as follows:

SECTION 1. Every lighter or other vessel employed in transporting stone sold by weight, or in transporting gravel or sand, shall be marked in the manner prescribed by section fourteen of chapter sixty-nine of the Public Statutes, or the weight which such lighter or other vessel is capable of carrying shall be indicated as follows; by having in the hold of such lighter or vessel, at each end thereof, and as near as practicable to the extremities of the space where the cargo is usually carried, a glass tube with a stopcock at the bottom; said tube shall be mounted upright upon a scaleboard of metal or wood, having thereon marks or figures so arranged as to indicate the weight of the cargo when the water in the tube shall reach the bottom of a figure or mark on the scaleboard.

SECTION 2. This act shall take effect upon its passage. [Approved April 10, 1897.

[CHAP. 328.]

An Act relative to the registration by the civil service commissioners of applicants for Labor.

Be it enacted, etc., as follows:

SECTION 1. Applicants for positions in the labor service of the Commonwealth or of the cities thereof shall be allowed to register, to the number of five hundred, on the first Monday of February, May, August, and November in each year, at the places appointed for the registry of such applicants, and any rules heretofore made by the civil service commissioners which are inconsistent with the provision of this act are hereby annulled.

SECTION 2. This act shall take effect upon its passage. [Approved April 29, 1897.

[CHAP. 343.]

AN ACT RELATIVE TO THE LICENSING OF CONDUCTORS, DRIVERS AND DESPATCHERS OF STREET CARS IN THE CITY OF BOSTON.

Be if enacted, etc., as follows:

SECTION 1. Section one of chapter fifty-nine of the acts of the year eighteen hundred and seventy-nine, as amended by chapter ninety-nine of the acts of the year eighteen hundred and eighty, is hereby further amended by inserting in the fifth line, after the word "conductors", the word:—motormen,—so as to read as follows:—Section 1. The board of police commissioners of the city of Boston shall, upon the recommendation of the president, superintendent, or board of directors of any street railway corporation using the streets of said city, issue licenses from time to time to the conductors, motormen and drivers of the street cars of the said several street railway corporations, and also to the persons employed to start or despatch the cars of said corporations from the stables, stations, depots, and other places within said city; and said board of police commissioners may, after due notice and a hearing, revoke any such license at any time for sufficient cause. Such licenses shall continue and remain in force until surrendered by the licensee or until revoked by said board of police commissioners, and shall contain such provisions and conditions as said board shall determine: provided, however, that the fee to be paid for each license shall not exceed the sum of twenty-five cents.

SECTION 2. Section three of chapter fifty-nine of the acts of the year eighteen hundred and seventy-nine is hereby amended by striking out the word "horses", in the eighth line, and inserting in place thereof the word:—cars,—so as to read as follows: Section 3. Said board of police commissioners shall require the members of their department to observe and direct the persons licensed under this act, and to cause them to conform to the laws of the Commonwealth, the ordinances of the city of Boston, the regulations of the board of aldermen of said city, and the rules of said board of police commissioners relating to the use of the tracks, the speed of the cars, and especially to the obstructions of public travel, by the management of the street cars; said police officers shall secure the necessary testimony, and shall report to the board of police commissioners every instance of the wilful or persistent violation by any licensee of any such law, ordinance, regulation or rule, or any refusal to obey the request of said officers respecting the management of any street car.

SECTION 8. Section four of chapter fifty-nine of the acts of the year eighteen hundred and seventy-nine is hereby amended by striking out the words "drive any horses attached to", in the first and second lines, and inserting in place thereof the words:—act in the capacity of driver or motorman on,—and by inserting after the word "stables", in the third line, the words:—or car houses,—so as to read as follows:—Section 4. Any person who shall act in the capacity of driver or motorman on any street car in any street in the city of Boston, except at the stables or car houses of said corporations, or shall act in the capacity of conductor, starter or despatcher at any place within the limits of said city, without being licensed therefor, as herein provided, or who shall act in such capacity in violation of the provisions or conditions, or after the revocation of such license, shall forfeit and pay a sum not exceeding twenty dollars for each offence.

SECTION 4. Section five of chapter fifty-nine of the acts of the year eighteen hundred and seventy-nine, as amended by chapter ninety-nine of the acts of the year eighteen hundred and eighty, is hereby further amended by inserting after the word "driver", in the third line, the word:—motorman, —so as to read as follows:—Section 5. No person whose license shall have been revoked pursuant to the provisions of this act, shall be reinstated, or receive a new license as conductor, driver, motorman, starter or despatcher on any street railway in the city of Boston, within a period of two months from the date of the revocation of his license, unless by the assent of said commissioners. [Approved May 6, 1887.

[CHAP. 344.]

AN ACT RELATIVE TO THE ADULTERATION OF FOOD.

Be it enacted, etc., as follows:

SECTION 1. No person shall within this Commonwealth manufacture for sale, offer for sale, or sell any article of food which is adulterated within the meaning of this act.

SECTION 2. The term "food", as used herein, shall include all articles used in food or drink by man, whether simple, mixed or compound.

SECTION 8. An article shall be deemed to be adulterated within the meaning of this act in the case of food: -1. If any substance or substances have been mixed with it, so as to lower or depreciate or injuriously affect its quality, strength or purity. 2. If any inferior or cheaper substance or substances have been substituted wholly or in part for it. 3. If any valuable or necessary constituents or ingredient have been wholly or in part taken from it. 4. If it is in imitation of or is sold under the name of another article. 5. If it consists wholly or in part of a diseased, decomposed, putrid, tainted or rotten animal or vegetable substance or article, whether manufactured or not, or, in the case of milk, if it is produced from a diseased animal. 6. If it is colored, coated, polished or powdered in such a manner as to conceal its damaged or inferior condition, or if by any means it is made to appear better, or of greater value, than it really is. 7. If it contains any added substance or ingredient which is poisonous or injurious to health: provided, that the provisions of this act shall not apply to mixtures or compounds recognized as ordinary articles or ingredients of articles of food, if every package sold or offered for sale is distinctly labelled as a mixture or compound, with the name and per cent, of each ingredient therein, and if such mixtures or compounds are not injurious to health.

SECTION 4. No person shall offer for sale any canned articles of food after the first day of January in the year eighteen hundred and ninety-eight, except goods packed prior to the passage of this act, unless such articles bear a mark to indicate the grade or quality thereof, together with the name and address of the person, firm or corporation which packed the same, or of the dealer who sells the same.

SECTION 5. All canned articles of food prepared from dried products which have been soaked before canning shall be plainly marked by an adhesive label, having on its face the word "Soaked", in letters not less in size than two line pica, of legible type; and all cans, jugs and other packages containing maple syrup or molasses shall be plainly marked by an adhesive label, having on its face the name and address of the person, firm or corporation which made or prepared the same, together with the name and quality of the ingredients of the goods, in letters of the size and description above-specified.

SECTION 6. Any person, firm or corporation falsely stamping or labelling any cans, jars or other packages, containing fruit, or food of any kind, or knowingly permitting such false stamping or labelling, and any person, firm or corporation violating any of the provisions of this act, shall be deemed guilty of a misdemeanor, and shall be punished by a fine of not less than ten dollars nor more than one hundred dollars in the case of vendors, and in the case of manufacturers and those falsely or fraudulently stamping or labelling such cans, jars or other packages, by a fine of not less than one hundred dollars nor more than five hundred dollars.

SECTION 7. All acts and parts of acts inconsistent herewith are hereby repealed.

[Approved May 6, 1897.

[CHAP. 874.]

AN ACT RELATIVE TO THE SUPPORT OF THE POOR IN TOWNS.

Be it enacted, etc., as follows:

SECTION 1. In towns where paupers are provided for otherwise than in a workhouse or almshouse the overseers of the poor shall investigate each place where the town paupers are to be supported, and shall make such contract for the support of town paupers as in the judgment of the overseers of the poor will secure proper care and maintenance for such paupers. A full and complete record of each case shall be kept, containing the terms and conditions of support agreed upon, and also a statement of what services, if any, are to be rendered by the paupers. A majority of the overseers of the poor shall certify upon the records that such investigation has been made in each case and that they are satisfied that the poor of the town will be well and properly cared for. The overseers of the poor shall visit each place where the town paupers are provided for, at least once every three months, and a record of each visit and of the condition of the paupers visited shall be kept.

SECTION 2. Any overseer of the poor who violates the provisions of this act shall be punished by fine not exceeding one hundred dollars.

SECTION 8. The state board of lunacy and charity may determine in what manner overseers of the poor shall make contracts for the support of town paupers, and may visit and inspect all places where paupers are so supported, and shall have full power to enforce the provisions of this act.

SECTION 4. This act shall take effect upon its passage. [Approved May 10, 1897.

[CHAP. 412.]

An Act relative to prison labor.

Be it enacted, etc., as follows :

SECTION 1. The number of inmates of all the prisons in this Commonwealth who may be employed in the industries hereinafter named shall be limited as follows:—In the manufacture of brushes not more than eighty; in the manufacture of cane chairs with wood frames not more than eighty; in the manufacture of clothing other than shirts or hosiery not more than three hundred and seventy-five; in the manufacture of harnesses not more than fifty; in the manufacture of mats not more than twenty; in the manufacture of rattan chairs not more than seventy-five; in the manufacture of shirts not more than eighty, and none but women to be so employed; in the manufacture of shoes not more than three hundred and seventy-five; in the manufacture of shoe-heels not more than one hundred and twenty-five; in the manufacture of trunks not more than twenty; to be employed at stone cutting not more than one hundred and fifty; to be employed at laundry work not more than one hundred

SECTION 2. Not over thirty per cent. of the number of inmates of any penal institution having more than one hundred inmates shall be employed in any one industry.

SECTION 3. After the first day of January in the year eighteen hundred and ninetyeight the general superintendent of prisons shall not approve the employment of any
prisoners on the contract or piece price plan in the penal institutions of the Commonwealth, except in the industry of cane seating and in the manufacture of umbrellas. All
existing contracts which can be terminated by notice shall be so terminated; and the general superintendent of prisons and the principal officers of the prisons and reformatories
are hereby directed to notify the contractors forthwith in accordance with the provisions
of said contracts that the same will be terminated on the date named in this section.

SECTION 4. This act shall not apply to prisoners engaged in the manufacture of goods for use in the prisons or to be used in any of the public charitable institutions or hospitals of the Commonwealth.

SECTION 5. No goods manufactured in any penal or reformatory institution of this Commonwealth, house of correction or county jail, shall be sold for less than the wholesale market price prevailing at the time of such sale for goods of the same description and quality: provided, that this section shall not apply to goods furnished to public institutions for the use of the immates thereof.

SECTION 6. All acts and parts of acts inconsistent with this act are hereby repealed.

SECTION 7. This act shall take effect on the first day of January in the year eighteen hundred and ninety-eight. [Approved May 18, 1897.

[CHAP. 416.]

AN ACT TO AUTHORIZE ACTIONS OF TORT AGAINST GAS AND ELECTRIC LIGHT COR-PORATIONS FOR THE LOSS OF LIFE BY NEGLIGENCE.

Be it enacted, etc., as follows:

If by reason of the negligence or carelessness of a corporation operating a gas or electric light plant or system, or of the unfitness or gross negligence or carelessness of its servants or agents while engaged in its business, the life of a person who is exercising due diligence and who is not in the employment of such corporation, is lost, the corporation shall be liable in damages not exceeding five thousand dollars nor less than five hundred dollars, to be assessed with reference to the degree of culpability of said corporation or of its servants or agents, and to be recovered in an action of tort commenced within one year from the injury causing the death, by the executor or administrator of the deceased person, for the use of the widow and children of the deceased, in equal moieties; or if there are no children, for the use of the widow; or if there is no widow, for the use of the next of kin. [Approved May 21, 1897.

[CHAP. 434.]

AN ACT RELATIVE TO THE LABOR OF PRISONERS IN THE JAILS AND AT THE STATE FARM.

Be it enacted, etc., as follows:

SECTION 1. The laws relating to the labor of prisoners in the state prison, reformatories and houses of correction shall apply to the labor of prisoners in the jails and at the

state farm; and the general superintendent of prisons shall have the same authority over the industries in the jails and at the state farm which he now has in respect to the industries in said state prison, reformatories and houses of correction.

SECTION 2. This act shall take effect upon its passage. [Approved May 26, 1897.

[CHAP. 452.]

AN ACT TO REQUIRE STREET RAILWAY COMPANIES TO ENCLOSE THE PLATFORMS OF CARR DURING CERTAIN MONTHS OF THE YEAR.

Be it enacted, etc., as follows:

SECTION 1. All cars purchased, built or rebuilt by any street railway company after the first day of January in the year eighteen hundred and ninety-eight, and used by such company in the transportation of passengers during the months of January, February, March, November and December shall, during each of said months, have the platforms of such cars enclosed in such a manner as to protect the motormen, conductors or other employees operating said cars from exposure to the wind and inclemency of the weather: provided, that said platforms shall be so enclosed as not to obstruct the sight of the employees or endanger the safe management of the cars, in such manner as the board of railroad commissioners may determine. Any street railway company which fails or neglects to comply with the provisions of this act shall be fined not more than one hundred nor less than fifty dollars for each day during which such failure or neglect continues.

SECTION 2. The term "car", as used in this act, shall include all cars operated by steam, cable or electricity, which require the constant care or attention of any person on the platforms thereof while they are in motion. The term "company", shall include any corporation, partnership or person owning or operating a street railway.

SECTION 8. The superintendent or manager of any street railway or any officer or agent thereof who causes or permits any violation of the provisions of this act shall be jointly and severally liable with the corporation, partnership or person employing him to the fine hereby imposed, and in default of payment thereof may be committed to jail until the same is paid: provided, that he shall not be so committed for a longer period than three months.

SECTION 4. This act shall take effect on the first day of January in the year eighteen hundred and ninety-eight; but it shall not apply to any street cars operated in a city of more than fifty thousand inhabitants, unless the board of railroad commissioners, after hearing and investigation, shall certify that, in its opinion, such cars can be operated therein with safety to the public. But this exemption shall not apply to the cars of any street railway company which shall not, on or before the first day of October in the year eighteen hundred and ninety-seven, file with said board a request for such hearing and investigation. [Approved June 3, 1897.

[CHAP. 480.]

AN ACT RELATIVE TO THE EMPLOYMENT OF PRISON LABOR IN THE INDUSTRY OF CAME SEATING AND IN THE MANUFACTURE OF UMBRELLAS.

Be it enacted, etc., as follows:

SECTION 1. Section two of chapter four hundred and twelve of the acts of the year eighteen hundred and ninety-seven is hereby amended by adding at the end of said section the words:—except in the industry of cane seating and in the manufacture of umbrellas,—so as to read as follows:—Section 2. Not over thirty per cent. of the number of inmates of any penal institution having more than one hundred inmates shall be employed in any one industry, except in the industry of cane seating and in the manufacture of umbrellas.

SECTION 2. This act shall take effect upon its passage. [Approved June 9, 1897.

[CHAP. 491.]

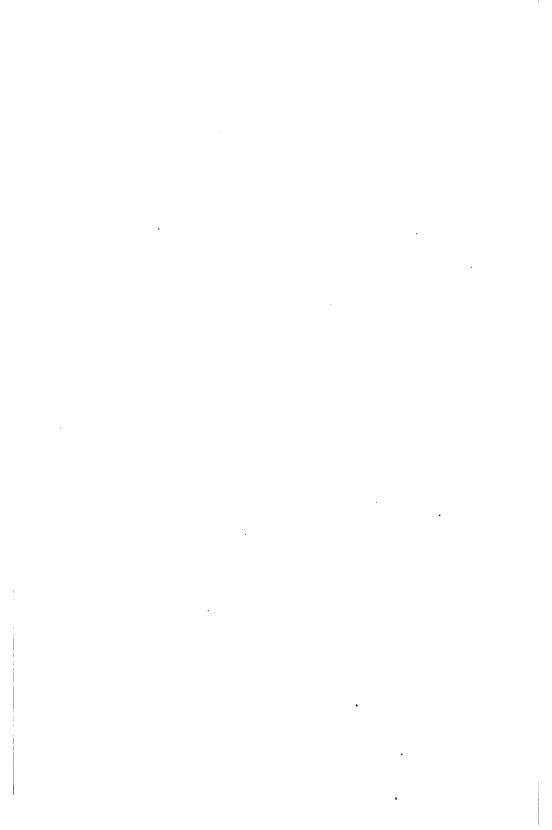
AN ACT RELATIVE TO THE LIABILITY OF EMPLOYERS TO MAKE COMPENSATION FOR PERSONAL INJURIES SUFFERED BY EMPLOYEES IN THEIR SERVICE.

Re it enacted, etc., as follows:

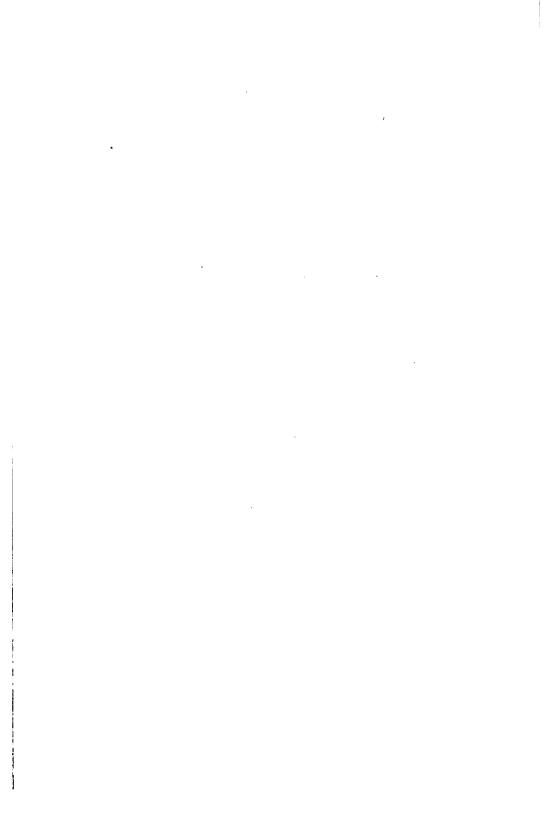
SECTION 1. One or more cars in motion, whether attached to an engine or not, shall constitute a train within the meaning of clause three of section one of chapter two hundred and seventy of the acts of the year eighteen hundred and eighty-seven and acts in addition thereto or in amendment thereof.

SECTION 2. Any person who, as a part of his duty for the time being, physically controls or directs the movements of a signal, switch or train shall be deemed to be a person in charge or control of a signal, switch or train within the meaning of clause three of section one of chapter two hundred and seventy of the acts of the year eighteen hundred and eighty-seven and acts in addition thereto or in amendment thereof. [Approved June 10, 1897.

In the year 1896, the labor unions continued agitation for a shorter working day, increased wages, and the use of union-made goods designated by means of the label. Considerable effort was also made in the interest of organization, unions being formed in several trades hitherto unorganized. Owing to the general curtailment of production and the necessary idleness of several thousand employés, the labor unions were particularly beneficial by paying to members a fixed sum weekly, thus supplying a means of living in place of loss of employment. The labor laws enacted by the Legislature during the past year, were due chiefly to the labor unions. The settlement of labor difficulties by the principle of arbitration was adhered to more strictly than in previous years. The principal subjects receiving the endorsement of organized labor were the abolition of contract labor on public work; raising of the compulsory school age; further restriction of hours of labor for women and children; and the extension of factory laws to mercantile establishments. New members reported admitted to various unions numbered 1,637, a slight increase over the preceding year. New organizations formed numbered 34, with 1,454 charter members. These figures are probably less than the actual number.









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THE:

ANNUAL STATISTICS

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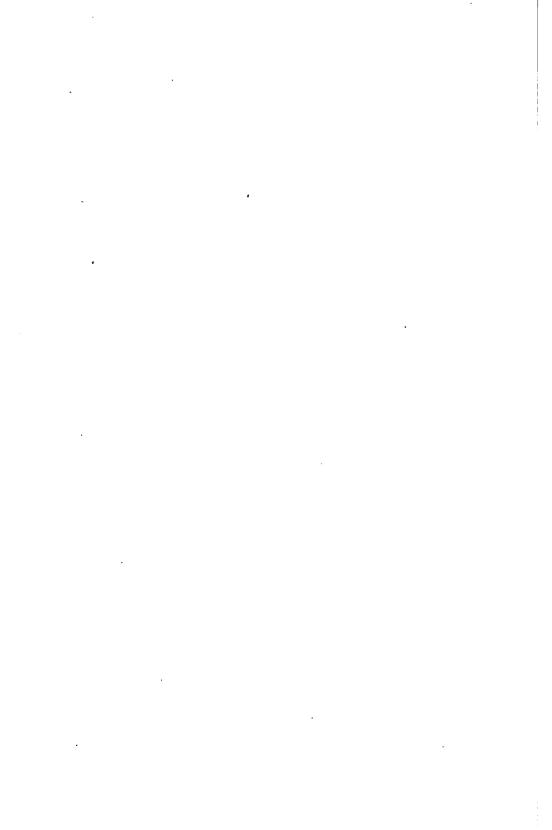
MANUFACTURES.

1896.

ELEVENTH REPORT.

BOSTON:

WRIGHT & POTTER PRINTING CO., STATE PRINTERS, 18 POST OFFICE SQUARE. 1897.



Commonwealth of Massachusetts.

BURBAU OF STATISTICS OF LABOR, CLAPLIN BUILDING, 20 BEACON STREET, BOSTON, MAY 29, 1897.

To the Honorable Senate and House of Representatives:

I have the honor to transmit, herewith, the Annual Statistics of Manufactures for the year 1896, which have been collected and are presented in compliance with Chapter 174, Acts of 1886.

Very respectfully,

HORACE G. WADLIN, Chief.

[m]



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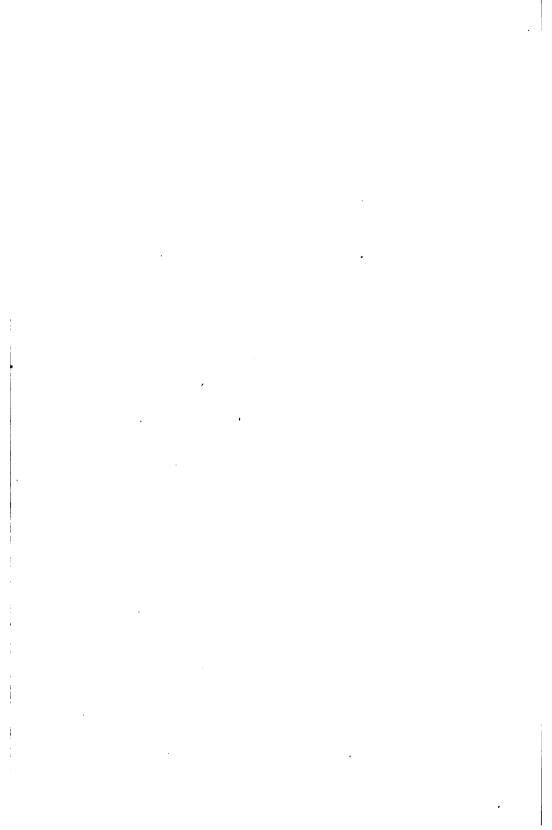
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THE

ANNUAL STATISTICS OF MANUFACTURES.

1896.

INTRODUCTION.

The present is the eleventh report on the Annual Statistics of Manufactures, issued in accordance with the provisions of Chapter 174 of the Acts of 1886.

The following table indicates the number of returns compared in these annual reports, in each year, beginning with 1886:

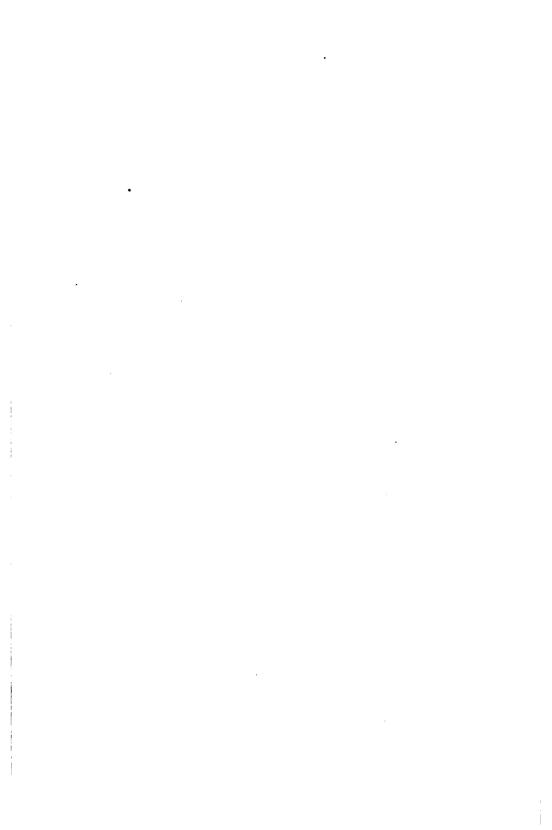
YEARS.		Number of Establishments Considered	YEARS.							Number of Establishment Considered			
1886,					1,027	1892,							4,478
1887,					1,027	1898,							4,397
1888,					1,140	1894,							4,098
1880,					1,864	1895,							8,629
1890,					8,041	1896,							4,609
1891,					8,745								

The value of these reports is, of course, proportionate to the number of returns upon which they are based, and the increase in the returns since 1886 is very gratifying. The thanks of this Bureau are extended to those manufacturers who have so willingly complied with the requests of this office.

Mr. Frank H. Drown, Second Clerk of the Bureau, has had direct charge, as heretofore, of the clerks and special agents engaged in the preparation of this volume. I wish to record here my thanks to him for the painstaking and efficient service which he has rendered; and also to acknowledge the general co-operation and assistance of Mr. Charles F. Pidgin, Chief Clerk.

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STATISTICS OF MANUFACTURES. 1896.



PRIVATE FIRMS AND CORPORATIONS; PARTNERS AND STOCKHOLDERS:

BY INDUSTRIES.

PRIVATE FIRMS AND CORPORATIONS; PARTNERS AND STOCKHOLDERS: BY INDUSTRIES.

1895.

[There are duplications in the columns devoted to "Number of Private Firms," "Partners," "Number of Corporations," and "Stockholders." These duplications are indicated by an asterisk (*). They are caused by the fact that the same firm or corporation is often engaged in manufacturing in two or more establishments located in different towns and sometimes in different industries. The plan adopted has been to consider each establishment (whether managed in connection with another or not) as one, and to credit the whole number of firms, partners, corporations, and stockholders to each industry, but to count them once only in making up the total for "All Industries."]

	1	Number of		PART	INERS
	Industries.	Estab- lishments Considered	of Private Firms	Males	Females
1	Agricultural implements,	8	8	5	٠ -
2	Arms and ammunition,	12	8	10	1
8	Artisans' tools,	69	54	76	2
4	Awnings, sails, tents, etc.,	82	32	42	1
5	Bicycles, tricycles, etc.,	10	1	2	-
6	Boots and shoes,	605	549	872	9
7	Boxes (paper and wooden),	158	+143	+199	5
8	Brick, tiles, and sewer pipe,	56	46	75	4
9	Brooms, brushes, and mops,	19	16	23	-
10	Burial cases, caskets, coffins, etc.,	7	4	8	-
11	Buttons and dress trimmings,	15	8	11	1
12	Carpetings,	· 12	3.	4	-
13	Carriages and wagons,	143	+182	•186	1
14	Cement, kaolin, lime, and plaster,	10	7	14	_
15	Chemical preparations (compounded), .	12	8	11	1
16	Clocks, watches, and jewelry,	99	92	170	10
17	Clothing	180	110	199	1
18	Cooking, lighting, and heating apparatus, .	86	22	80	2
19	Cordage and twine,	29	17	23	1
20	Corks, bungs, and taps,	3	8	4	١ -
21	Cotton goods,	169	84	51	7
22	Cotton, woollen, and other textiles	2	-	-	-
23	Crayons, pencils, crucibles, etc.,	4	8	4	-
24	Drugs and medicines	27	14	19	1
25	Dyestuffs	8	4	5	1
26	Earthen, plaster, and stone ware,	7	6	8	_
27	Electrical apparatus and appliances,	28	12	18	-
28	Electroplating.	12	12	16	_
29	Emery and sand paper and cloth, etc., .	10	1	1	-
80	Fancy articles, etc.	11	9	12	

PRIVATE FIRMS AND CORPORATIONS; PARTNERS AND STOCKHOLDERS: BY INDUSTRIES.

1895.

[There are duplications in the columns devoted to "Number of Private Firms," "Partners," "Number of Corporations," and "Stockholders." These duplications are indicated by an asterisk (*). They are caused by the fact that the same firm or corporation is often engaged in manufacturing in two or more establishments located in different towns and sometimes in different industries. The plan adopted has been to consider each establishment (whether managed in connection with another or not) as one, and to credit the whole number of firms, partners, corporations, and stockholders to each industry, but to count them once only in making up the total for "All Industries."]

Special E	2 2 2 - 5 1 2	Total 5 18 81 43 2 800 *207	of Corpora- tions 5 4 15 - 9	Males 52 85 429 -	Females 20 34 258	Banks, Trustees, etc. 12 20 78	Total 84 189	Partners and Stockholders	1 2
1 - - 18 2 1 - - - 1	2 2 - 5 1 2	18 81 43 2 899 •207	4 15 - 9	85 429 -	84	20	189	152	1
1	2 - 5 1 2	81 43 2 809 +207	15 - 9	429 -					2
18 2 1 1 1	5 1 2	43 2 800 •207	9	•	258	78		11	
18 2 1 	5 1 2 1	2 899 •207	- 1	-	i i		760	841	8
18 2 1 	5 1 2 1	899 •207	- 1	990	-	-	-	48	4
2 1 1	1 2 1	•207	+56	200	30	21	271	273	5
1 1	2 1			+628	158	29	+810	*1,709	6
1	1		*15	*102	27	1	*130	+887	7
1		82	10	249	94	25	868	450	8
1		24	8	15	17	. 8	40	64	9
1 -	- 1	. 8	8	62	11	5	78	86	10
1 -	1	18	+7	+60	14	2	+76	*89	11
	-	4	9	477	896	188	1,056	1,060	12
-	2	+190	11	104	59	3	166	*356	18
	-	14	8	18	1	2	21	85	14
4	-	12	4	46	11	5	62	74	15
	-	184	7	184	24	18	171	855	16
2	-	202	20	271	106	21	898	600	17
2	1	85	18	126	58	17	196	231	18
2	-	26	+12	+1 281	194	14	+ 1 489	◆1 515	19
-	-	4	_	-		-	-	4	20
- 1	4	62	*135	*10,722	*8,210	*8,007	+21,989	+22,001	21
-	-	-	+2	*201	+181	*127	+509	*509	22
-	-	4	1	10	2	· -	12	16	28
-	-	20	18	102	89	6	147	167	24
-	-	6	4	42	10	1	58	59	25
-	-	8	1	12	8	_	18	28	26
-	-	18	11	288	52	18	848	366	27
-	-	16	_	-	-	-	-	16	28
-	-	1	9	84	19	4	107	108	29
-		12	2	40	2	-	42	54	30

¹ Includes one syndicate.

PRIVATE FIRMS, PARTNERS, ETC.: BY INDUSTRIES - 1896
— Concluded.

		Number of	Number	Part	THERS
	Industriks.	Estab- lishments Considered	of Private Firms	Males	Females
1	Tradillaria	8	3	5	_
2	Fine arts and taxidermy.	8	2	8	_
8	Fireworks and matches,	4	2	4	_
4		10	4		_
5	Flax, hemp, jute, and linen goods,	319	*278	+382	6
6	.	119	106	162	9
7	,	14	11	19	1
8.	Glass,	28	15	24	1
9	Glue, isingless, and starch,		7	8	3
	Hair work (animal and human),	7		3	•
10	Hose: rubber, linen, etc.,	4	3	1	-
11	Hosiery and knit goods,	42	25	42	4
12	Ink, mucilage, and paste,	7	6	8	-
18	Ivory, bone, shell, and horn goods, etc.,	18	17	28	1
14	Leather,	143	*123	+217	1
15	Liquors and beverages (not spirituous), .	28	26	83	1
16	Liquors: malt, distilled, and fermented, .	67	34	57	5
17	Lumber,	32	*28	88	3
18	Machines and machinery,	871	*241	+338	12
19	Metals and metallic goods,	882	+275	*386	10
20	Mixed textiles,	12	4	4	-
21	Models, lasts, and patterns,	49	45	65	1
22	Musical instruments and materials,	65	45	64	1
23	Oils and illuminating fluids,	9	7	10	-
24	Paints, colors, and crude chemicals,	23	16	30	-
25	Paper and paper goods,	123	40	78	-
26	Perfumes, toilet articles, etc.,	4	2	2	-
27	Photographs and photographic materials, .	24	20	21	2
28	Polishes and dressing,	88	27	48	1
29	Printing, publishing, and bookbinding, .	47	32	53	2
30	Print works, dye works, and bleacheries, .	47	29	87	8
81	Railroad construction and equipment,	16	8	5	-
82	Rubber and elastic goods,	41	*20	+30	2
33	Saddlery and harness,	41	38	44	-
34	Scientific instruments and appliances,	20	16	22	-
85	Shipbuilding,	51	47	62	_
86	Silk and silk goods,	9	4	5	1
87	Sporting and athletic goods,	9	6	7	_
38	Stone,	199	*179	*277	*8
89	Straw and palm leaf goods,	21	18	36	-
40	Tallow, candles, soap, and grease,	60	55	73	-
41	Tobacco, snuff, and cigars,	48	41	56	2
42	Toys and games (children's),	11	9	18	2
43	Trunks and valises,	7	7	10	[
44	Whips, lashes, and stocks,	15	11	19	2
45	Wooden goods,	153	134	187	2
46	Woollen goods,	122	*86	*183	7
47	Worsted goods,	27	13	24	i
48	ALL INDUSTRIES,	4,609	3,493	5,238	145

PRIVATE FIRMS, PARTNERS, ETC.: BY INDUSTRIES — 1896
— Concluded.

	D		i		9			1	
	PARTNERS	· · · · · · · · · · · · · · · · · · ·	Number of		BTOCK	HOLDERS		AGGREGATES:	
Special	Estates	Total	Corpora- tions	Males	Females	Banks, Trustees, etc.	Total	and Stockholders	
-	_	5	_	-	-	-	-	5	1
-	-	8	1	6	1	-	7	10	2
-	-	4	2	502	258	88	798	797	8
-	1	10	6	59	54	15	128	188	4
-	+7	*395	*46	+1577	*104	24	+1705	*11,100	5
2	2	175	13	207	80	82	819	494	6
-	-	20	8	125	11	1	187	157	7
-	-	25	8	196	81	12	239	264	8
-	1	7	-	-	-	-	-	7	9
-	-	8	1	88	47	8	188	141	10
-	-	46	+17	+646	*408	+251	*1,305	+1,851	11
-	-	8	1	4	-	-	4	12	12
-	-	29	1	10	-	-	10	89	13
*8	-	*221	*20	*201	*71	*17	+289	+510	14
-	-	34	2	36	7	-	48	77	15
-	-	62	23	² 662	57	1	* 720	≥ 782	16
-	*2	+43	4	71	88	10	114	+157	17
-	9	*359	*180	+ 2,748	*1,190	+828	* 2 4,256	**4,615	18
2	7	*405	107	11,358	597	175	1 2,125	+12,530	19
-	-	4	8	1 46	8	-	1 54	1 58	20
-	-	66	*4	+27	+24	-	+51	*117	21
-	2	67	20	112	28	8	148	210	22
-	-	10	2	9	3	8	15	25	23
-	-	30	7	67	18	1	81	111	24
-	1	74	*88	*1,092	*476	*124	*1,692	*1,766	25
-	-	2	2	7	2	•	9	11	26
-	-	23	4	21	7	6	34	57	27
-]	1	45	6	72	11	8	86	181	28
-	1	56	15	114	25	8	142	198	29
-	1	41	*18	*667	•585	*486	*1,688	*1,729	30
-	-	5	*13	** 281	60	10	** 301 *894	**806	81
-	- : }	*83	*21	*478	*885 7	86	26	*926	32
-	1	45	8	19 88		-	101	71	88
- 1	1 1	23 68	1 4	81	8	4	96	124 150	84 85
	- 1	68	5	61	11	1	78	79	36
- []	[]	7	8	18	10	1	29	36	37
1	8	+280	20	870	148	33	551	*840	38
i l	•	87	8	11	6	2	19	56	39
:		78	5	4	24	1	69	142	40
1	_ [59	7	42	5	2	49	108	41
8		18	;	16			16	34	49
-	_	10	1 :	~~	_	_		10	43
-	-	21	4	168	68	8	239	260	44
-	1	190	19	171	38	16	225	415	45
-	5	*145	*36	+566	*467	*188	+1,216	•1,361	46
8	-	28	*14	*309	+180	•62	*501	+529	47
42	42	5,482	1,070	4 26,528	14,750	4,865	4 46,148	4 51,625	48
			II	1	1	I	<u> </u>	11	

¹ Includes one syndicate.

⁸ Includes four railroads.

² Includes three syndicates.

⁴ Includes 10 syndicates and four railroads.



CAPITAL INVESTED:

BY INDUSTRIES.

CAPITAL INVESTED: BY INDUSTRIES.

1895, 1896.

[In this presentation, the figures given under "Amount of Capital Invested" represent the returns made by the same establishments, in each industry, for the years 1895 and 1896, the whole number of establishments considered in "All Industries" being 4,609. Comparison is made, as regards the amount of capital invested, between these two years. The relative increase or decrease in 1895 as compared with 1895 is given with its equivalent percentage.]

Agricultural implements,	Industries.	Number of Estab- lishments	Amou Capital	NT OF INVESTED	Increase or Decrease 189	₽ (—), DX
Arms and ammunition,		Con-	1895	1896	Amounts	Percent-
Artisans' tools,	Agricultural implements,	8	\$1,077,477	\$959, 014	-\$118,463	-10.99
Awnings, salis, tents, etc.,	Arms and ammunition,	12	1,681,189	1,632,256	-48,933	-2.91
Bicycles, tricycles, etc.,	Artisans' tools,	69	2,722,827	2,712,280	10,547	-0.89
Bots and shoes,	Awnings, sails, tents, etc.,	82	98,455	102,553	+4,098	+4.16
Boxes (paper and wooden),	Bicycles, tricycles, etc.,	10	2,193,671	2,269,896	+76,225	+3.47
Brick, tiles, and sewer pipe,	Boots and shoes,	605	23,172,849	19,990,145	-3,182,204	13.78
Brooms, brushes, and mops,	Boxes (paper and wooden),	158	2,909,086	2,747,582	-161,504	5.55
Burial cases, caskets, coffins, etc.,	Brick, tiles, and sewer pipe	56	1,971,029	1,987,023	+15,994	+0.81
Buttons and dress trimmings,	Brooms, brushes, and mops,	19	622,934	591,306	-31,628	-5.08
Carpetings,	Burial cases, caskets, coffins, etc., .	7	185,496	148,152	+7,656	+6.65
Carriages and wagons,	Buttons and dress trimmings, .	15	788,106	732,035	-6,071	-0.82
Cement, kaolin, lime, and plaster, . 10	Carpetings,	12	6,008,497	6,020,485	+11,988	+0.20
Chemical preparations (compounded),	Carriages and wagons,	148	2,416,494	2,362,896	-53,598	-2.22
ed),	Cement, kaolin, lime, and plaster, .	10	112,139	97,365	14,774	-13.17
Clocks, watches, and jewelry,	Chemical preparations (compound-			i		
Clothing,	ed),	12	1,291,405	1,492,497	+201,092	+15.57
Cooking, lighting, and heating apparatus,	Clocks, watches, and jewelry,	99	8,030,807	2,924,403	-106,404	-8.51
paratus,	Clothing,	130	4,846,666	4,054,647	292,019	-6.72
Cordage and twine,	Cooking, lighting, and heating ap-				i	
Corks, bungs, and taps,		35	1,805,862	1,239,829	-66,033	-5.06
Cotton goods,	Cordage and twine,	29	8,942,825	8,155,049	—787,776	-19.98
Cotton, woollen, and other textiles, 2 3,532,561 3,290,683 -24,878 -6. Crayons, pencils, crucibles, etc., 4 44,233 41,496 -2,737 -6. Drugs and medicines, .	Corks, bungs, and taps,	8	27,847	40,025	+12,178	+43.73
Crayons, pencils, crucibles, etc., . 4 44,233 41,496 —2,737 —6. Drugs and medicines, 27 898,110 910,965 +12,855 +1. Dyestuffs, 8 544,084 493,037 —51,047 —9. Earthen, plaster, and stone ware, . 7 412,967 383,748 —29,219 —7. Electrical apparatus and appliances, leaveroplating, 12 57,329 54,603 —2,726 —4. Emery and sand paper and cloth, etc., fancy articles, etc., 11 137,003 131,316 —5,687 —4. Fertilizers, 3 79,519 102,144 +22,625 +28.	Cotton goods,	169	116,141,614	112,902,817	-8,238,797	-2.79
Crayons, pencils, crucibles, etc., . 4 44,233 41,496 —2,737 —6. Drugs and medicines, 27 898,110 910,965 +12,855 +1. Dyestuffs, 8 544,084 493,037 —51,047 —9. Earthen, plaster, and stone ware, . 7 412,967 383,748 —29,219 —7. Electrical apparatus and appliances, leaveroplating, 12 57,329 54,603 —2,726 —4. Emery and sand paper and cloth, etc., fancy articles, etc., 11 137,003 131,316 —5,687 —4. Fertilizers, 3 79,519 102,144 +22,625 +28.	Cotton, woollen, and other textiles,	2	3,532,561	8,290,683	-241,878	-6.85
Dyestuffs,		4	44,233	41,496	—2,737	-6.19
Earthen, plaster, and stone ware, . 7 412,967 388,748 -29,219 -7. Electrical apparatus and appliances, . 28 3,803,450 2,947,150 -356,300 -10. Electroplating, . . . 12 57,329 54,603 -2,726 -4. Emery and sand paper and cloth, etc., fancy articles, etc., . .<	Drugs and medicines,	27	898,110	910,965	+12,855	+1.43
Electrical apparatus and appliances, 28 3,303,450 2,947,150 —356,300 —10. Electroplating, 12 57,329 54,603 —2,726 —4. Emery and sand paper and cloth, etc., 10 620,380 627,684 +7,284 +1. Fancy articles, etc., 11 137,003 131,316 —5,687 —4. Fertilizers, 3 79,519 102,144 +22,625 +28.	Dyestuffs,	8	544,084	493,037	51,047	9.88
Electroplating,	Earthen, plaster, and stone ware, .	7	412,967	388,748	—29,2 19	7.08
Emery and sand paper and cloth, etc., 10 620,380 627,664 +7,234 +1. Fancy articles, etc.,	Electrical apparatus and appliances,	28	8,308,450	2,947,150	356,300	-10.79
Fancy articles, etc.,	Electroplating,	12	57,329	54,603	-2,726	-4.76
Fertilizers,	Emery and sand paper and cloth, etc.,	10	620,380	627,664	+7,284	+1.17
	Fancy articles, etc.,	11	137,003	181,316	5,687	-4.15
Fine arts and taxidermy 3 28,775 28,500 -275 -0.	Fertilizers,	8	79,519	102,144	+22,626	+28.45
	Fine arts and taxidermy,	8	28,775	28,500	2 75	-0.96
Fireworks and matches, 4 118,557 92,604 —25,953 —21.	Fireworks and matches,	4	118,557	92,604	-25,953	21.89
Flax, hemp, jute, and linen goods, . 10 2,497,988 2,550,520 +52,532 +2.	Flax, hemp, jute, and linen goods,.	10	2,497,988	2,550,520	+52,532	+2.10
Food preparations,	Food preparations,	819	13,977,217	13,687,962	—289,25 5	-2.07
Furniture,	Furniture,	119	3,611,891	3,470,925	—140,966	-8.90
Glass, 14 121,128 113,337 -7,789 -6.	Glass,	14	121,126	113,337	—7,789	-6.43

CAPITAL INVESTED: BY INDUSTRIES-1895, 1896-Concluded.

Industries.	Number of Estab- lishments	Amou Capital	NT OF INVESTED	INCREASE OR DECREASE 189	(+), s (-), m
100011229	Con- sidered	1895	1896	Amounts	Percent ages
Glue, isinglass, and starch,	23	\$1,050,491	\$1,080,614	+\$21,123	+1.9
Hair work (animal and human), .	7	124,598	120,000	-4,598	-8.6
Hose: rubber, linen, etc.,	. 4	570,566	891,034	+820,468	+56.1
Hosiery and knit goods,	42	4,477,489	4,208,270	-269,169	-6.0
Ink, mucilage, and paste,	7	89,818	81,702	-8,116	
Ivory, bone, shell, and horn goods,	i				
etc.,	18	842,642	881,290	-11,852	-8.8
Leather,	148	8,479,094	7,829,970	-1,149,124	-18.5
Liquors and beverages (not spirit-	l				1
uous),	28	874,546	869,176	5,870	-1.4
Liquors: malt, distilled, and fer-	Ì				
mented,	57	10,297,548	10,265,815	-81,783	-0.8
Lumber	82	1,693,681	, ,	1	
Machines and machinery,	871	23,167,426	23,733,634	+566,208	
Metals and metallic goods,	882	19,177,940		-1,544,936	-8.0
Mixed textiles,	12	884,182		+2,180	
Models, lasts, and patterns,	49	521,964	503,462	-18,502	
Musical instruments and materials,	65	8,595,886	1 .	-402,840	-11.2
Oils and illuminating fluids,	9	875,406	863,980	-11,426	-8.0
Paints, colors, and crude chemicals,	23	653,800	624,595	-28,705	
Paper and paper goods,	123	24,682,688	23,670,894	-1,011,789	-4.1
Perfumes, toilet articles, etc.,	4	61,834	48,288	-13,546	-21.9
Photographs and photographic ma-	•	01,001		-15,020	-21.1
terials	24	401,220	897,367	-8,858	-0.9
Polishes and dressing,	83	882,187		+49,893	
Printing, publishing, and bookbind-	•	002,201	502,0 00	7 20,000	70.0
	47	2,918,537	2,904,792	-13,745	-0.4
ing,	71	2,510,501	2,502,152	-10,120	_0.,
eries	47	18,256,027	13,270,967	+14,940	+0.1
Railroad construction and equip-	7'	10,200,021	10,210,501	4.72,020	70.
ment,	16	2,668,787	2,671,890	+7,608	+0.5
Rubber and elastic goods.	41	10,850,498			-12.2
Saddlery and harness,	41	801,587	272,852		
Scientific instruments and appli-		301,001	212,002	-20,100	_9.
ances	20	548,140	555,801	+7,661	+1.4
	51	522,171	493,272	-28,899	—5.6
Shipbuilding,	9	1,715,006		1	l
Sporting and athletic goods,	9	404,762		-30,168 +55,403	
Stone	199	8,744,084	3,603,720	—140,814	
Straw and palm leaf goods,	21	1,948,115	1,919,395		
Tallow, candles, soap, and grease,	60	11 1		-28,720	
	48	1,668,898	1,617,444	-61,454	ı
Tobacco, snuff, and cigars, Toys and games (children's)	11	1,064,548 826,287	,	+127,813	
• • • • • • • • • • • • • • • • • • • •	117	11 -	825,575	—712	-0.5
Trunks and valises,	15	53,806	1		
Whips, lashes, and stocks,	1	834,251	388,890	+54,639	
Wooden goods,	158 122	8,144,490	2,888,985	—260,555	
Woollen goods,		21,932,897	19,186,201	-2,748,696	t
Worsted goods,	27	15,700,666	15,843,809	-856,857	-2.5
ALL INDUSTRIES,	4,609	\$390,982,763	\$373,582,161	-\$17,350,602	-4.

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STOCK USED: BY INDUSTRIES.

STOCK USED: BY INDUSTRIES.

1895, 1896,

[In this presentation, the figures given under "Value of Stock Used" represent the returns made by the same establishments, in each industry, for the years 1896 and 1896, the whole number of establishments considered in "All Industries" being 4,609. Comparison is made, as regards value of stock used, between these two years. The relative increase or decrease in 1896 as compared with 1896 is given with its equivalent percentage.]

Industries	Number of Estab- lishments	VAI OF STOC	LUE EX USED	INCREASE OR DECREASE 189	: (—), IX
	Con- sidered	1895	1896	Amounts	Percent-
Agricultural implements,	8	\$478,087	\$430,237	-\$47,800	-10.00
Arms and ammunition,	12	483,686	429,660	-54,026	-11.17
Artisans' tools,	69 i	791,967	833,733	+41,766	+5.27
Awnings, sails, tents, etc.,	32	161,189	161,410	+221	+0.14
Bicycles, tricycles, etc.,	10	1,189,388	1,835,027	+145,639	+12.24
Boots and shoes,	605	55,559,505	53,883,477	-1,676,028	-8.02
Boxes (paper and wooden),	158	2,707,654	2,542,516	-165,138	6.10
Brick, tiles, and sewer pipe,	56	428,999	462,877	+33,878	+7.90
Brooms, brushes, and mops,	19	724,178	730,444	+6,266	+0.87
Burial cases, caskets, coffins, etc., .	7	202,248	202,195	-48	-0.02
Buttons and dress trimmings, .	15	406,335	826,148	80,187	19.73
Carpetings	12	4,836,556	8,302,865	-1,033,691	-23.84
Carriages and wagons,	143	1,818,499	1,664,385	-149,114	-8.22
Cement, kaolin, lime, and plaster, .	10	203,435	184,236	-19,199	-0.44
Chemical preparations (compound-				, i	
ed),	12	685,187	548,017	-187,170	20.02
Clocks, watches, and jewelry,	99	2,321,722	2,016,780	-304,942	-13.18
Clothing.	180	11,181,226	9,646,549	-1,484,677	-13.84
Cooking, lighting, and heating ap-		,,	0,010,010	_,,,	
paratus	85	788,242	781,167	57,085	—7.24
Cordage and twine,	29	8,825,090	8,812,881	+487,241	+14.65
Corks, bungs, and taps,	8	81,699	48,311	+16,612	+52.41
Cotton goods	169	48,244,485	50,297,985	+4,053,550	+8.77
Cotton, woollen, and other textiles,	2	1,130,546	1,306,773	+176,227	+15.59
Crayons, pencils, crucibles, etc., .	4	33,394	81,319	-2,075	-6.21
Drugs and medicines	27	1,283,148	1,356,468	+73,820	+5.71
Dyestuffs,	8	508,490	845,419	-163,071	-32.07
Earthen, plaster, and stone ware, .	7	74,813	65,025	9,288	-12.50
Electrical apparatus and appliances,	23	2,592,548	2,212,721	-379,827	-14.65
Electroplating,	12	85,744	38,905	+3,161	+8.84
Emery and sand paper and cloth, etc.,	i i	278,062	830,765	+52,703	+18.95
Fancy articles, etc.,	11	132,468	181,113	-1,350	-1.02
Fertilizers	8	155,331	129,469	-25,862	-16.65
Fine arts and taxidermy.	3	3,049	8,899	+850	+27.88
Fireworks and matches,	4	63,150	55,566	-7,584	-12.01
Flax, hemp, jute, and linen goods, .	10	2,212,565	2,065,651	-146,914	-6.64
Food preparations	819	82,369,971	80,465,871	-1,904,100	-5.88
Furniture,	119	8,848,589	8,172,788	-675,751	-17.56
Glass,	14	114,757	133,532	+18,775	+16.36
		112,101	200,002	7-10,110	1.70.00

STOCK USED: BY INDUSTRIES - 1895, 1896 - Concluded.

Industries.	Number of Estab- lishments	OF STOC	LUE IK USED	Increase or Decrease 189	(+), (-), n
AND COLUMN	Con- sidered	1895	1896	Amounts	Percent- ages
Glue, isinglass, and starch,	23	\$581,852	\$685,39 5	+\$104,043	+17.9
Hair work (animal and human), .	7	245,524	214,380	-81,144	-12.6
Hose: rubber, linen, etc.,	4	781,701	670,827	-61,374	-8.8
Hosiery and knit goods,	42	8,876,271	2,406,106	-970,165	-28.7
Ink, mucilage, and paste,	7	169,699	154,499	-15,200	
Ivory, bone, shell, and horn goods,			,		
etc.,	18	432,770	892,045	-40,725	-9.4
Leather.	148	15,746,203	13,127,769	-2,618,434	
Liquors and beverages (not spirit-		20,710,200	10,121,100	2,010,201	2011
uous),	28	281,851	205,989	-75,912	26.9
Liquors: malt, distilled, and fer-	20	201,001	200,505	-10,012	
· · · · · · · · · · · · · · · · · · ·	67	9 674 404	9 719 570	1 704 700	
· .	32	8,614,404	8,718,570	+104,166	
Lumber,		1,248,415	1,143,802	-104,618	
Machines and machinery,	871	9,931,227	10,350,988		+4.
Metals and metallic goods,	882	11,021,656	10,626,829	895,327	—8.
Mixed textiles,	12	970,461	720,849	—24 9,612	
Models, lasts, and patterns,	49	302,120	301,117	-1,003	-0.
Musical instruments and materials,	65	1,611,842	1,288,400	-823,442	-20.0
Oils and illuminating fluids,	9	586,910	591,681	+4,771	+0.
Paints, colors, and crude chemicals,	23	778,695	637,117	-136,578	-17.
Paper and paper goods,	123	14,830,407	18,625,290	-1,205,117	-8.
Perfumes, toilet articles, etc., .	4	180,454	167,168	-13,286	—7. :
Photographs and photographic ma-			·	,	
terials	94	850,093	802,554	-47,539	—13.
Polishes and dressing,	88	1,017,651	1,006,248	-12,408	
Printing, publishing, and bookbind-			_,000,0		
ing.	47	1,280,476	1,272,659	-7,817	 0.
Print works, dye works, and bleach-		1,200,110	2,212,000	_,,,,,	
eries.	47	15,571,467	14,649,591	921,87 6	— 5.
Railroad construction and equip-	•	10,011,401	15,029,091		
1	16	1 400 000	1 070 410	1 530 400	
ment,	41	1,462,920	1,978,419	+510,499	+84.
		12,309,931	11,577,825	782,606	-5.
Saddlery and harness,	41	569,402	530,964	-38,438	6.
Scientific instruments and appli-					
ances,	20	188,698	155,585	-28,163	-15.
Shipbuilding,	51	256,836	224,921	-81,415	-12.
Silk and silk goods,	9	2,023,968	1,748,248	280,725	
Sporting and athletic goods,	9	238,612	287,529	1,088	
Stone,	199	1,236,019	1,240,226	+4,207	+0.
Straw and palm leaf goods,	21	2,544,527	2,571,868	+27,886	+1.
Fallow, candles, soap, and grease, .	60	2,049,765	1,806,427	-243,838	-11.
Tobacco, snuff, and cigars,	48	1,469,729	1,821,643	-148,086	10.
Toys and games (children's),	11	263,282	284,494	-28,788	-10.
Trunks and valises,	7	75,188	58,015	-22,178	29.
Whips, lashes, and stocks,	15	854,888	844,515	-10,318	-2.
	158	2,465,172	2,309,224	-155,948	1
Wooden goods,					
Wooden goods,	122	14,410,166	11,393,040	-8.017.126	—20.
• .	122 27	14,410,166 18,133,008	11,393,040 10,861,550	-8,017,126 -2,271,453	1



GOODS MADE: BY INDUSTRIES.

GOODS MADE: BY INDUSTRIES.

1895, 1896,

[In this presentation, the figures given under "Value of Goods Made and Work Done" represent the returns made by the same establishments, in each industry, for the years 1895 and 1896, the whole number of establishments considered in "All Industries" being 4,609. Comparison is made, as regards the value of goods made and work done, between these two years. The relative increase or decrease in 1896 as compared with 1895 is given with its equivalent percentage.

Industries.	Number of Estab- lishments	VALUE OF G AND WOI	OODS MADE	INCREASE OR DECREASE 189	: (—), IX
industries.	Con- sidered	1895	1896	Amounts	Percent- ages
Agricultural implements,	8	\$996,226	\$1,037,054	+840,828	+4.10
Arms and ammunition,	12	1,712,134	1,759,564	+47,430	
Artisans' tools,	69	2,541,463	2,769,200	+227,737	
Awnings, sails, tents, etc.,	32	363,593	845,665	17,928	1
Bicycles, tricycles, etc.,	10	8,643,921	8,543,562	—100,359	-2.75
Boots and shoes,	605	89,938,212	87,945,168	-1,993,044	-2.22
Boxes (paper and wooden),	158	5,252,131	4,982,387	-269,744	-5.14
Brick, tiles, and sewer pipe,	56	1,480,245	1,567,785	+87,540	+5.91
Brooms, brushes, and mops,	19	1,210,622	1,193,494	-17,1 2 8	-1.41
Burial cases, caskets, coffins, etc., .	7	383,938	368,659	—15,279	-3.98
Buttons and dress trimmings, .	15	918,842	770,894	—147,9 4 8	-16.10
Carpetings,	12	7,218,798	5,674,687	-1,539,161	-21.84
Carriages and wagons,	143	4,047,680	3,788,346	-259,334	-6.41
Cement, kaolin, lime, and plaster, .	10	324,726	294,280	-30,446	0.38
Chemical preparations (compound-					
ed),	12	1,222,641	1,018,982	203,659	-16.66
Clocks, watches, and jewelry, .	99	6,095,952	5,891,757	704,195	—11.55
Clothing.	180	18,766,275	16,652,997	-2,113,278	-11.26
Cooking, lighting, and heating ap-	1	'			
paratus,	85	2,585,989	2,561,227	-24,762	-0.96
Cordage and twine,	29	4,799,858	5,784,821	+984,468	+19.47
Corks, bungs, and taps,	8	55,582	83,500	+27,968	+50.36
Cotton goods,	169	89,615,751	87,146,004	-2,469,747	-2.76
Cotton, woollen, and other textiles,	2	2,338,688	2,046,377	-292,306	-12.50
Crayons, pencils, crucibles, etc., .	4	61,190	58,557	-2,683	-4.30
Drugs and medicines,	27	8,918,309	4,004,298	-1-85,989	+2.19
Dyestuffs,	8	746,162	559,269	-186,893	-25.05
Earthen, plaster, and stone ware, .	7	253,114	227,771	25,843	-10.01
Electrical apparatus and appliances,	23	5,837,551	4,589,082	-748,469	14.02
Electroplating,	12	160,667	179,477	+18,810	+11.71
Emery and sand paper and cloth, etc.	. 10	694,874	817,058	+122,684	+17.67
Fancy articles, etc.,	11	332,555	823,323	9,232	-2.78
Fertilizers,	8	233,569	219,845	-13,724	-5.88
Fine arts and taxidermy.	8	25,571	30,494	+4,923	+19.25
Fireworks and matches	4	149,510	144,091	-5,419	-3.62
Flax, hemp, jute, and linen goods,	10	3,265,212	8,252,281	-12,931	l .
Food preparations,	319	41,952,077	40,410,988	-1,541,094	!
Furniture.	119	7,166,182	1	-1,065,583	Į.
Glass,	14	401,158		-54,741	1

GOODS MADE: BY INDUSTRIES - 1895, 1896 - Concluded.

Industries.	Number of Estab- lishments	VALUE OF C	BOODS MADE	INCREASE (+), OR DECREASE (-), IN 1896		
1.0001220	Con- sidered	1895	1896	Amounts	Percent ages	
Glue, isinglass, and starch,	23	\$980,557	\$1,079,892	+\$99,885	+10.1	
Hair work (animal and human), .	7	850,218	811,550	-88,668	-11.0	
Hose: rubber, linen, etc.,	4	1,116,341	1,502,996	+886,655	+84.6	
Hosiery and knit goods,	42	6,485,901	5,014,755	-1,421,146	-22.0	
Ink, mucilage, and paste,	7	877,317			-6.8	
Ivory, bone, shell, and horn goods,						
etc.,	18	978,257	870,299	-107,968	-11.0	
Leather,	148	22,879,841	19,041,544	-8,838,297	-14.1	
Liquors and beverages (not spirit-						
uous),	28	598,559	484,851	-118,708	-19.0	
Liquors: malt, distilled, and fer-			'	1		
mented,	57	10,420,708	10,041,293	-879,410	8.0	
Lumber	32	2,160,588	1 1			
Machines and machinery,	871	26,027,029			+9.	
Metals and metallic goods,	382	24,484,118				
Mixed textiles,	12	1,558,851				
Models, lasts, and patterns,	49	958,388		-11,505	-1.	
Musical instruments and materials,	65	4,928,878		1 .	-20.	
Oils and illuminating fluids,	9	771,686			+5.	
Paints, colors, and crude chemicals,	23	1,221,979		-182,686		
Paper and paper goods	128	25,028,375		1		
Perfumes, toilet articles, etc.,	4	219,848				
Photographs and photographic ma-	•	200,000	200,000			
terials,	24	836,607	846,706	+10,099	+1.	
Polishes and dressing,	88	1,947,510		1	+0.	
Printing, publishing, and bookbind-	. ~	2,027,020	1,000,010	170,100	, 0.	
ing,	47	4,666,995	4,686,399	80,596	- 6.	
Print works, dye works, and bleach-	•	2,000,000	2,000,000			
eries	47	22,692,098	20,730,903	-1,961,195	8.	
Railroad construction and equip-	•	22,002,000	20,100,500	_1,501,150		
ment,	16	3,047,903	3,918,402	+870,499	+28.	
Rubber and elastic goods,	41	20,515,207				
Seddlery and harness,	41	958,816		, , ,	-4.	
Sedentific instruments and appli-	•	300,010	200,212			
ances	20	612,860	557,963	_64,397	-8.	
	61	724,192		—76,868	l .	
Shipbuilding,	9	8,195,057		-287,242	—8.	
Sporting and athletic goods,		656,418	1	-28,104		
Stone,	199	5,318,127		+209,797	+8.	
Straw and palm leaf goods,	21	4,826,089		+7,667	+0.	
Tallow, candles, soap, and grease, .	60	8,080,144		-260,954		
	48	3,099,229		1		
Tobacco, snuff, and cigars,	11	617,761		-185,585 +11,521	- 3. +1.	
	7	158,100		—12,278		
· · · · · · · · · · · · · · · · · · ·	15	1,050,017	984,807	—12,278 —115,210	_8. _10.	
Whips, lashes, and stocks,	153	4,913,012		-115,210 -812,235		
	122	24,899,606				
Woollen goods,	27	20,599,046	1 ' '			
Worsted goods,				2,771,800		
ALL INDUSTRIES,	4,609	\$569,097,021	\$537,720,294	-\$31,376,727	-5.	



PERSONS EMPLOYED: BY INDUSTRIES.

[25]

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SMALLEST, GREATEST, AND AVERAGE NUMBER OF PERSONS EMPLOYED: BY INDUSTRIES.

[In this table, by the terms "Periods of employment of smallest number" and "Periods of employment of greatest number" are meant those times, as regards aggregate number of persons employed, when the smallest or greatest number, respectively, was employed. It must be borne in mind that the number of persons here enumerated are wage earners only; officers, clerks, or other salaried persons are not included.]

AGGREGATES - 1895.

Industries.	Estab- A	Aggregate Average Number of	AGGREG PERSONS AT PER EMPLOYM	Excess of Greatest over	
	Con- aidered	Persons Employed	Smallest Number	Greatest Number	Smallest Number
Agricultural implements,	8	548	490	594	104
Arms and ammunition,	12	1,596	1,882	1,805	478
Artisans' tools,	69	1,757	1,571	1,980	409
Awnings, sails, tents, etc.,	82	161	117	255	188
Bicycles, tricycles, etc.,	10	2,037	1,419	2,770	1,851
Boots and shoes,	605	43,180	88,862	52,068	18,701
Boxes (paper and wooden),	158	8,815	8,284	4,464	1,230
Brick, tiles, and sewer pipe,	56	1,268	587	2,124	1,637
Brooms, brushes, and mope,	19	700	629	752	123
Burial cases, caskets, coffins, etc.,	7	201	188	209	21
Buttons and dress trimmings,	15	768	638	876	238
Carpetings,	12	4,616	4,351	4,794	448
Carriages and wagons,	148	2,178	1,616	2,677	1,061
Cement, kaolin, lime, and plaster,	10	120	102	132	30
Chemical preparations (compounded), .	12	847	317	872	55
Clocks, watches, and jewelry,	99	8,562	2,762	4,338	1,576
Clothing.	130	7,231	5,547	8,513	2,966
Cooking, lighting, and heating apparatus,	35	1,449	1,025	1,761	786
Cordage and twine.	29	2,877	2,009	2,794	785
Corks, bungs, and taps,	8	36	81	40	9
Cotton goods,	169	79,795	78,778	88,545	9,767
Cotton, woollen, and other textiles,	2	1,644	1,588	1,693	110
Crayons, pencils, crucibles, etc.,	4	41	84	46	12
Drugs and medicines,	27	653	. 449	869	420
Dyestuffs	8	152	121	178	52
Earthen, plaster, and stone ware,	7	230	165	298	133
Electrical apparatus and appliances, .	23	2,935	2,549	3,301	752
Electroplating.	12	119	87	155	68
Emery and sand paper and cloth, etc., .	10	278	241	819	78
Fancy articles, etc.,	11	239	156	848	192
Fertilizers.	8	49	47	51	4
Fine arts and taxidermy,	8	10	10	14	4

PERSONS EMPLOYED: BY INDUSTRIES—Continued.

SMALLEST, GREATEST, AND AVERAGE NUMBER OF PERSONS
EMPLOYED. AGGREGATES—1895—Concluded.

Industries.	Number of Aggrega Estab- lishments Number		AGGREG PERSONS AT PER EMPLOYM	EMPLOYED	Excess of Greatest over
	Con- sidered	Persons Employed	Smallest Number	Greatest Number	Smallest Number
Fireworks and matches,	4	83	43	181	88
Flax, hemp, jute, and linen goods,	10	2,263	2,175	2,363	188
Food preparations	819	6,784	5,640	9,061	3,421
Furniture,	119	8,502	2,974	4,221	1,247
Glass	14	846	335	412	77
Glue, isinglass, and starch,	23	848	848	568	220
Hair work (animal and human),	7	149	148	163	20
Hose: rubber, linen, etc.,	4	588	848	892	544
Hosiery and knit goods,	42	5,605	4,774	6,360	1,586
Ink, mucilage, and paste,	7	64	51	97	46
Ivory, bone, shell, and horn goods, etc., .	18	809	547	1,040	493
Leather	148	7,168	5,737	8,502	2,765
Liquors and beverages (not spirituous), .	28	192	135	283	148
Liquors: malt, distilled, and fermented, .	57	1,613	1,386	1,903	517
Lumber,	32	771	518	994	481
Machines and machinery,	871	16,938	13,449	20,228	6,779
Metals and metallic goods,	882	14,694	12,128	17,138	5,010
Mixed textiles,	12	715	583	845	262
Models, lasts, and patterns,	49	434	368	506	138
Musical instruments and materials	65	2,240	1,937	2,526	589
Oils and illuminating fluids,	9	96	82	123	41
Paints, colors, and crude chemicals, .	23	236	192	266	74
Paper and paper goods,	123	11,647	10,856	12,558	2,202
Perfumes, toilet articles, etc.,	4	29	24	35	11
Photographs and photographic materials,	24	481	893	589	196
Polishes and dressing.	33	805	196	862	166
Printing, publishing, and bookbinding, .	47	2,578	2,848	2,855	512
Print works, dye works, and bleacheries,	47	6,456	6,005	6,931	926
Railroad construction and equipment	16	2,456	2,149	2,828	679
Rubber and elastic goods,	41	8,892	6,746	9,570	2,824
Saddlery and harness,	41	400	839	464	125
Scientific instruments and appliances, .	20	417	872	463	91
Shipbuilding,	51	427	262	703	441
Silk and silk goods,	9	1,849	1,580	1,987	407
Sporting and athletic goods,		552	320	744	424
Stone,	199	5,055	3,255	6,981	3,796
Straw and palm leaf goods.	21	2,612	683	4,246	8,563
Tallow, candles, soap, and grease,	60	622	563	667	104
	48	1,611	1,262	1,866	604
Toys and games (children's).	11	395	240	559	319
Thrombs and mallace	7	88	66	108	42
Whips, lashes, and stocks,	15	875	818	418	100
777	158	2,757	2.170	3,389	1,169
Waslier made	122	16,139	13,800	17,622	3,822
777	27	12,297	10,899	18,273	
• •		i			2,874
ALL INDUSTRIES,	4,609	807,590	258,776	851, 915	93,139

SMALLEST, GREATEST, AND AVERAGE NUMBER OF PERSONS EMPLOYED: BY INDUSTRIES.

[In this table, by the terms "Periods of employment of smallest number" and "Periods of employment of greatest number" are meant those times, as regards aggregate number of persons employed, when the smallest or greatest number, respectively, was employed. It must be borne in mind that the number of persons here enumerated are wage earners only; officers, clerks, or other salaried persons are not included.]

AGGREGATES - 1896.

Industries.	Number of Estab- lishments Con- Con-		AGGREG PERSONS I AT PER EMPLOYM	Excess of Greatest over	
	sidered	Persons Employed	Smallest Number	Greatest Number	Smallest Number
Agricultural implements,	8	568	894	646	252
Arms and ammunition,	12	1,582	1,279	1,864	585
Artisans' tools,	60	1,842	1,564	2,031	467
Awnings, sails, tents, etc.,	32	155	111	227	116
Bicycles, tricycles, etc.,	10	1,994	812	3,051	2,239
Boots and shoes,	605	42,263	32,679	51,998	19,819
Boxes (paper and wooden),	158	8,699	8,215	4,248	1,028
Brick, tiles, and sewer pipe,	56	1,325	586	2,227	1,641
Brooms, brushes, and mops,	19	694	555	798	243
Burial cases, caskets, coffins, etc.,	7	198	195	201	6
Buttons and dress trimmings,	15	775	585	994	409
Carpetings,	12	4,232	8,417	4,791	1,874
Carriages and wagons,	148	1,972	1,481	2,503	1,022
Cement, kaolin, lime, and plaster,	10	119	98	136	43
Chemical preparations (compounded), .	12	334	286	859	78
Clocks, watches, and jewelry,	99	8,288	2,454	4,112	1,658
Clothing,	130	6,986	5,167	8,350	8,183
Cooking, lighting, and heating apparatus,	85	1,538	1,220	1,818	596
Cordage and twine,	29	2,468	2,105	8,024	919
Corks, bungs, and taps,	8	43	24	58	29
Cotton goods,	169	78,058	66,044	86,494	20,450
Cotton, woollen, and other textiles,	2	1,763	1,600	1,962	362
Crayons, pencils, crucibles, etc.,	4	36	34	87	3
Drugs and medicines,	27	680	446	827	381
Dyectuffe,	8	126	76	185	109
Rartben, plaster, and stone ware,	7	209	134	276	142
Electrical apparatus and appliances	23	2,705	2,365	8.010	645
Electroplating,	19	128	95	172	77
Emery and sand paper and cloth, etc., .	10	328	268	386	118
Fancy articles, etc.,	11	284	136	866	230
Fertilizers,	8	51	50	54	1
Fine arts and taxidermy.	8	15	14	16	2

PERSONS EMPLOYED: BY INDUSTRIES—Continued. SMALLEST, GREATEST, AND AVERAGE NUMBER OF PERSONS EMPLOYED. AGGREGATES—1896—Concluded.

Industries.	Number of Estab- lishments	Aggregate Average Number of	AGGREGATES OF PERSONS EMPLOYED AT PERSONS OF EMPLOYMENT OF—		Excess of Grantest
	Con- sidered	Persons Employed	Smallest Number	Greatest Number	Smallest Number
Fireworks and matches,	. 4	94	61	129	68
Flax, hemp, jute, and linen goods,	10	2,266	2,038	2,437	399
Food preparations,	319	6,859	5,719	8,624	2,905
Furniture,	119	8,293	2,618	8,919	1,301
Glass,	14	800	115	408	293
Glue, isinglass, and starch,	23	398	308	644	836
Hair work (animal and human),	. 7	145	131	154	23
Hose: rubber, linen, etc.,	. 4	745	449	1,179	780
Hosiery and knit goods,	42	5,646	4,523	6,456	1,933
Ink, mucilage, and paste,	7	59	51	68	17
Ivory, bone, shell, and horn goods, etc., .	1	699	546	981	385
Leather	148	6,847	5,018	8,046	3,028
Liquors and beverages (not spirituous), .		177	129	249	120
Liquors: malt, distilled, and fermented, .		1,681	1,490	1,994	504
Lumber,	82	731	509	969	460
Machines and machinery,	871	18,082	14,259	21.348	7,089
Metals and metallic goods,	882	14,242	11,740	16,535	4,795
Mixed textiles,	12	668	404	793	389
Models, lasts, and patterns,	49	445	877	540	163
Musical instruments and materials.	65	1,864	1,876	2,265	889
Oils and illuminating fluids.	9	110	82	2,265 177	95
	1	1 1			
Paints, colors, and crude chemicals,	28	202	188	248	60
Paper and paper goods,	128	11,112	9,514	12,243	2,729
Perfumes, toilet articles, etc.,	4	25	22	28	6
Photographs and photographic materials,		510	402	610	208
Polishes and dressing,	33	805	240	870	130
Printing, publishing, and bookbinding,	1	2,566	2,297	2,768	471
Print works, dye works, and bleacheries,	1	6,299	5,425	7,025	1,600
Railroad construction and equipment, .	16	2,876	2,845	3,33 8	993
Rubber and elastic goods,	41	7,990	5,415	9,141	3,726
Saddlery and harness,	41	883	815	450	185
Scientific instruments and appliances,	20	447	894	499	105
Shipbuilding,		483	253	708	455
Silk and silk goods,	1 -	1,619	1,180	1,916	786
Sporting and athletic goods,	. 9	566	230	794	564
Stone,	199	5,042	8,216	7,064	3,868
Straw and palm leaf goods,	21	2,466	548	4,207	3,659
Tallow, candles, soap, and grease,	. 60	615	547	662	115
Tobacco, snuff, and cigars,	48	1,545	1,215	1,785	570
Toys and games (children's),	. 11	421	246	565	319
Trunks and valises,	. 7	71	45	93	48
Whips, lashes, and stocks,	15	840	278	888	106
Wooden goods,	158	2,620	2,211	8,128	917
Woollen goods,	122	13,671	10,822	16,701	5,879
Worsted goods,	27	11,318	6,885	13,618	7,283
ALL INDUSTRIES.	4,609	298,546	235,110	858,440	118,330

SMALLEST, GREATEST, AND AVERAGE NUMBER OF PERSONS EMPLOYED: BY INDUSTRIES.

[In this table, averages for each establishment are given. These have been arrived at by dividing the aggregates given in the table on pages 27 and 28 by the number of establishments. It must be borne in mind that the number of persons here enumerated are wage earners only; officers, clerks, or other salaried persons are not included.]

AVERAGES - 1895.

		AVERAGES NUMBER OF PERSONS EMPLOYED IN RACH ESTABLISHMENT				
Industries.	Number of Estab-					
	lishments Con- sidered	Average Number	Smallest Number	Greatest Number	Excess of Greatest over Smallest Number	
Agricultural implements,	8	68	61	74	18	
Arms and ammunition,	12	138	111	150	89	
Artisans' tools,	60	25	23	29	6	
Awnings, sails, tents, etc.,	82	5	4	8	4	
Bicycles, tricycles, etc.,	10	204	142	277	185	
Boots and shoes,	605	71	55	86	81	
Boxes (paper and wooden),	158	94	20	28	8	
Brick, tiles, and sewer pipe,	56	23	10	87	27	
Brooms, brushes, and mops,	19	87	33	89	6	
Burial cases, caskets, coffins, etc.,	7	29	27	80	8	
Buttons and dress trimmings,	15	51	42	58	16	
Carpetings,	12	385	363	400	87	
Carriages and wagons,	143	16	11	18	7	
Cement, kaolin, lime, and plaster,	10	12	10	18	8	
Chemical preparations (compounded), .	12	29	26	81	6	
Clocks, watches, and jewelry,	99	36	28	44	16	
Clothing,	180	56	48	65	22	
Cooking, lighting, and heating apparatus,	35	41	29	50	21	
Cordage and twine,	29	82	60	96	27	
Corks, bungs, and taps,	8	12	10	18	8	
Cotton goods,	169	472	436	494	58	
Cotton, woollen, and other textiles,	2	822	792	847	55	
Crayons, pencils, crucibles, etc.,	4	10	9	12	8	
Drugs and medicines,	27	94	17	82	15	
Dyestuffs,	8	19	15	22	7	
Earthen, plaster, and stone ware,	7	33	24	48	19	
Electrical apparatus and appliances, .	28	128	111	144	83	
Electroplating,	12	10	7	13	6	
Emery and sand paper and cloth, etc., .	10	28	94	82	8	
Fancy articles, etc.,	11	22	14	81	17	
Fertilizers,	8	16	16	17	1	
Fine arts and taxidermy	3	8	8	4	1	

PERSONS EMPLOYED: BY INDUSTRIES — Continued. SMALLEST, GREATEST, AND AVERAGE NUMBER OF PERSONS EMPLOYED. AVERAGES — 1895 — Concluded.

		AVERAGES				
Industries.	Number of Estab-	NUMBER OF PERSONS EMPLOYED IN RACH ESTABLISHMENT				
	lishments Con- sidered	Average Number	Smallest Number	Greatest Number	Excess of Greatest over Smallest Number	
Fireworks and matches	4	21	11	38	22	
Flax, hemp, jute, and linen goods,	10	226	217	236	19	
Food preparations,	819	21	17	28	11	
Furniture	119	29	25	85	10	
Glass,	14	25	24	29	5	
Glue, isinglass, and starch,	28	15	15	25	10	
Hair work (animal and human)	7	21	20	23	3	
Hose: rubber, linen, etc.,	4	133	87	223	136	
Hosiery and knit goods,	42	133	118	151	88	
Ink, mucilage, and paste,	7	9	7	14	7	
Ivory, bone, shell, and horn goods, etc., .	18	45	30	57	27	
Leather,	143	50	40	50	19	
Liquors and beverages (not spirituous),.	28	7	5	10	5	
Liquors: malt, distilled, and fermented, .	57	28	24	83	9	
Lumber,	82	24	16	31	15	
Machines and machinery,	871	46	86	54	18	
Metals and metallic goods,	382	38	82	45	13	
Mixed textiles,	12	60	48	70	22	
Models, lasts, and patterns,	40	9	7	10	3	
Musical instruments and materials,	66	34	30	39	9	
Oils and illuminating fluids,	9	11	9	14	5	
Paints, colors, and crude chemicals,	28	10	8	11	8	
Paper and paper goods,	128	95	84	102	18	
Perfumes, toilet articles, etc.,	4	7	6	9	8	
Photographs and photographic materials,	24	20	16	24	8	
Polishes and dressing,	33	9	6	11	5	
Printing, publishing, and bookbinding, .	47	55	50	61	11	
Print works, dye works, and bleacheries,	47	187	128	147	19	
Railroad construction and equipment, .	16	154	134	176	42	
Rubber and elastic goods,	41	205	164	233	60	
Saddlery and harness,	41	10	8	11	3	
Scientific instruments and appliances, .	20	21	19	23	4	
Shipbuilding,	51	8	5	14	9	
Silk and silk goods,	9	205	176	221	45	
O	9	61	86	83	47	
0	199	25	16	35	19	
Oto	21	124	82	202	170	
Tallow, candles, soap, and grease,	60	10	9	11	2	
m.t	48	34	26	39	13	
Tops and games (children's),	11	86	22	51	29	
	7	18	9	15	-	
<u>-</u>	15	25	21	28	7	
Whips, lashes, and stocks,	158	18	14	22	8	
Wooden goods	122	132	113	144	81	
Worsted goods	27	455	404	492	88	
Worsted goods,			ļ			
ALL INDUSTRIES,	4,609	67	56	76	20	

SMALLEST, GREATEST, AND AVERAGE NUMBER OF PERSONS EMPLOYED: BY INDUSTRIES.

[In this table, averages for each establishment are given. These have been arrived at by dividing the aggregates given in the table on pages 29 and 30 by the number of establishments, It must be borne in mind that the number of persons here enumerated are wage earners only; officers, clerks, or other salaried persons are not included.]

AVERAGES - 1896.

		AVERAGES				
Industries.	Number of	Number of Persons Employed in Eac Establishment				
	lishments Con- sidered	Average Number	Smallest Number	Greatest Number	Excess of Greatest over Smallest Number	
Agricultural implements,	8	71	49	81	82	
Arms and ammunition,	12	128	106	155	49	
Artisans' tools,	69	27	22	29	7	
Awnings, sails, tents, etc.,	82	5	8	7	4	
Bicycles, tricycles, etc.,	10	199	81	805	224	
Boots and shoes,	605	70	54	86	82	
Boxes (paper and wooden),	158	23	20	27	7	
Brick, tiles, and sewer pipe,	56	24	10	89	29	
Brooms, brushes, and mops,	19	87	29	42	18	
Burial cases, caskets, coffins, etc.,	7	28	28	29	1	
Buttons and dress trimmings,	15	52	39	66	27	
Carpetings,	12	853	285	399	114	
Carriages and wagons,	143	14	10	17	7	
Cement, kaolin, lime, and plaster,	10	12	9	18	4	
Chemical preparations (compounded), .	12	28	24	30	6	
Clocks, watches, and jewelry,	99	83	25	42	17	
Clothing,	180	58	40	64	24	
Cooking, lighting, and heating apparatus,	85	44	85	52	17	
Cordage and twine,	29	85	72	104	82	
Corks, bungs, and taps,	3	14	8	18	10	
Cotton goods,	169	462	391	512	121	
Cotton, woollen, and other textiles,	2	882	800	981	181	
Crayons, pencils, crucibles, etc.,	4	9	8	9	1	
Drugs and medicines,	27	23	17	81	14	
Dyestuffs,	8	16	9	23	14	
Earthen, plaster, and stone ware,	7	30	19	39	20	
Electrical apparatus and appliances, .	23	118	103	181	28	
Electroplating,	12	11	8	14	6	
Emery and sand paper and cloth, etc., .	10	33.	27	39	12	
Fancy articles, etc.,	11	21	12	33	21	
Fertilizers,	8	17	17	18	1	
Fine arts and taxidermy.	8	5	4	5	1	

PERSONS EMPLOYED: BY INDUSTRIES — Continued. SMALLEST, GREATEST, AND AVERAGE NUMBER OF PERSONS EMPLOYED. AVERAGES — 1895 — Concluded.

		AVERAGES				
	Number of Estab-	Number of Persons Employed in each Establishment				
	lishments Con- sidered	Average Number	Smallest Number	Greatest Number	Excess of Greatest over Smalles Number	
Fireworks and matches,	4	21	11	38	22	
Flax, hemp, jute, and linen goods,	10	226	217	236	19	
Food preparations,	819	21	17	28	11	
Furniture,	119	29	25	85	10	
Glass,	14	25	24	29	5	
Glue, isinglass, and starch,	28	15	15	25	10	
Hair work (animal and human)	7	21	20	23	3	
Hose: rubber, linen, etc.,	4	133	87	223	136	
Hosiery and knit goods,	42	188	113	151	88	
Ink, mucilage, and paste,	7	9	7	14	7	
Ivory, bone, shell, and horn goods, etc., .	18	45	80	57.	27	
Leather,	148	50	40	50	19	
Liquors and beverages (not spirituous),.	28	7	5	10	5	
Liquors: malt, distilled, and fermented, .	57	28	24	33	9	
Lumber.	82	24	16	31	15	
Machines and machinery,	871	46	86	54	18	
Metals and metallic goods,	882	38	82	4.5	13	
Mixed textiles,	12	60	48	70	22	
Models, lasts, and patterns,	49	9	7	10	8	
Musical instruments and materials	66	34	80	39	9	
Oils and illuminating fluids,	و ا	11	0	14	5	
• •	28	10	8	11	8	
Paints, colors, and crude chemicals,	128	95	84	102	18	
Paper and paper goods,	4	7	6	9	8	
	24	20	16	24	8	
Photographs and photographic materials, Polishes and dressing.	88	6	6	ii	5	
	47	55	50	61	11	
Printing, publishing, and bookbinding, .	47	137	128	147	19	
Print works, dye works, and bleacheries,		154	134	176	49	
Railroad construction and equipment,	, 16 41	205	164	233	60	
Rubber and elastic goods,		10	8	11	3	
Saddlery and harness,	41 20	21	19	23	1	
Scientific instruments and appliances, .			1	14		
Shipbuilding,	51	8	1	221	45	
Silk and silk goods,	9	205	176		47	
Sporting and athletic goods,	9	61	86 16	83 35	19	
Stone,	199	25	32	202	170	
Straw and palm leaf goods,	21	124			1.0	
Tallow, candles, soap, and grease,	60	10	9	11	_	
Tobacco, snuff, and cigars,	48	34	26	39	13	
Toys and games (children's),	11	86	22	61	29	
Trunks and valises,	7	18	9	15	6	
Whips, lashes, and stocks,	15	25	21	28	7	
Wooden goods,	158	18	14	22	8	
Woollen goods,	122	132	118	144	31	
Worsted goods,	27	455	404	492	88	
ALL INDUSTRIES,	4,009	67	56	76	20	

SMALLEST, GREATEST, AND AVER-AGE NUMBER OF PERSONS EMPLOYED: BY INDUSTRIES.

[In this table, averages for each establishment are given. These have been arrived at by dividing the aggregates given in the table on pages 29 and 30 by the number of establishments. It must be borne in mind that the number of persons here enumerated are wage earners only; officers, clerks, or other salaried persons are not included.]

AVERAGES - 1896.

	Number of	AVERAGES				
Industries.		Number of Persons Employed in each Establishment				
	lishments Con- sidered	Average Number	Smallest Number	Greatest Number	Excess of Greatest over Smallest Number	
Agricultural implements,	8	71	49	81	82	
Arms and ammunition,	12	128	106	155	49	
Artisans' tools,	69	27	22	29	7	
Awnings, sails, tents, etc.,	82	5	8	7	4	
Bicycles, tricycles, etc.,	10	199	81	305	224	
Boots and shoes,	605	70	54	86	82	
Boxes (paper and wooden),	158	23	20	27	7	
Brick, tiles, and sewer pipe,	56	24	10	89	29	
Brooms, brushes, and mops,	19	87	29	42	13	
Burial cases, caskets, coffins, etc.,	7	28	28	29	1	
Buttons and dress trimmings,	15	52	89	66	27	
Carpetings,	12	853	285	399	114	
Carriages and wagons,	143	14	10	17	7	
Cement, kaolin, lime, and plaster	10	12	9	13	4	
Chemical preparations (compounded), .	12	28	24	80	6	
Clocks, watches, and jewelry,	99	83	25	42	17	
Clothing,	130	53	40	64	24	
Cooking, lighting, and heating apparatus,	35	44	35	52	17	
Cordage and twine,	29	85	72	104	82	
Corks, bungs, and taps,	3	14	8	18	10	
Cotton goods,	169	462	391	512	121	
Cotton, woollen, and other textiles,	2	882	800	981	181	
Crayons, pencils, crucibles, etc.,	4	9	8	9	1	
Drugs and medicines,	27	23	17	81	14	
Dyestuffs,	8	16	9	23	14	
Earthen, plaster, and stone ware,	7	80	19	89	20	
Electrical apparatus and appliances, .	23	118	108	131	28	
Electroplating,	12	11	8	14		
Emery and sand paper and cloth, etc., .	10	88-	27	39	12	
Fancy articles, etc.,	11	21	12	33	21	
Fertilizers,	3	17	17	18	1	
Fine arts and taxidermy	8	5	4	5	1	

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PERSONS EMPLOYED: BY INDUSTRIES—Continued. SMALLEST, GREATEST, AND AVERAGE NUMBER OF PERSONS EMPLOYED. AVERAGES—1896—Concluded.

		AVERAGE8				
Industries.	Number of Estab-	NUMBER OF PERSONS EMPLOYED IN EACH ESTABLISHMENT				
	lishments Con- sidered	Average Number	Smallest Number	<i>Greatest</i> Number	Excess of Greatest over Smallest Number	
Fireworks and matches,	4	24	15	82	17	
Flax, hemp, jute, and linen goods,	10	227	204	244	40	
Food preparations,	319	22	18	27	9	
Furniture,	119	28	22	33	11	
Glass,	14	21	8	29	21	
Glue, isinglass, and starch,	23	17	18	28	15	
Hair work (animal and human),	7	21	19	22	3	
Hose: rubber, linen, etc.,	4	186	112	295	183	
Hosiery and knit goods,	42	184	108	154	46	
Ink, mucilage, and paste,	7	8	7	9	2	
Ivory, bone, shell, and horn goods, etc., .	18	89	80	51	21	
Leather,	143	44	85	56	21	
Liquors and beverages (not spirituous).	28	6	5	9	4	
Liquors: malt, distilled, and fermented, .	57	29	26	85	9	
Lumber,	82	23	16	30	14	
Machines and machinery,	371	49	88	57	19	
Metals and metallic goods,	382	37	81	43	12	
Mixed textiles,	12	56	84	66	82	
Models leats and netterns	40	9	8	11	8	
Musical instruments and materials,		29	21	85	14	
•	65			20	11	
Olls and illuminating fluids,	9	12	9		8	
Paints, colors, and crude chemicals,	28	9	8	11	_	
Paper and paper goods,	123	90	77	99	22	
Perfumes, tollet articles, etc.,	4	6	5	7	2	
Photographs and photographic materials,	24	21	17	25	8	
Polishes and dressing,	88	9	7	11	4	
Printing, publishing, and bookbinding,	47	55	49	59	10	
Print works, dye works, and bleacheries,	47	184	115	149	84	
Railroad construction and equipment, .	16	180	147	209	62	
Rubber and elastic goods,	41	195	182	223	91	
Saddlery and harness,	41	9	8	11	8	
Scientific instruments and appliances, .	20	22	20	25	5	
Shipbuilding,	51	8	5	14	9	
Silk and silk goods,	9	180	131	213	82	
Sporting and athletic goods,	9	63	25	88	63	
Stone,	199	25	16	85	19	
Straw and paim leaf goods,	21	117	26	200	174	
Tallow, candles, soap, and grease,	60	10	9	11	2	
Tobacco, snuff, and cigars,	48	32	25	37	12	
Toys and games (children's),	11	38	22	51	29	
Trunks and valises,	7	10	6	13	7	
Whips, lashes, and stocks,	15	23	19	26	7	
Wooden goods,	153	17	14	20	6	
Woollen goods,	122	112	89	137	48	
Worsted goods,	27	419	234	504	270	
- ,						

RANGE OF EMPLOYMENT AND UNEM-PLOYMENT: BY INDUSTRIES.

1895, 1896.

[In this presentation, the excess of greatest over smallest number of persons employed for 1895 and 1896 is brought forward from the tables on pages 27 to 30 inclusive, and a comparison is made between the two years. The relative increase or decrease in the excess of greatest number over smallest number employed in 1896 as compared with 1895 is given with its equivalent percentage. It must be borne in mind that the persons here enumerated are wage earners only; officers, clerks, or other salaried persons are not included.]

Industries.	Number of Estab- lishments	OVER SI NUMBER O	Greatest Kallest F Persons OYED	OR DECRE	se (+), ase (-), in i 96
	Con- sidered	1895	1896	Number	Percent-
Agricultural implements,	8	104	252	+148	+142.31
Arms and ammunition,	12	473	585	+112	+23.68
Artisans' tools,	69	409	467	+58	+14.18
Awnings, sails, tents, etc.,	82	138	116	-22	-15.94
Bicycles, tricycles, etc.,	10	1,851	2,239	+888	+65.78
Boots and shoes,	605	18,701	19,319	+618	+8.30
Boxes (paper and wooden),	158	1,230	1,028	-202	-16.42
Brick, tiles, and sewer pipe,	56	1,587	1,641	+104	+6.77
Brooms, brushes, and mops,	19	123	243	+120	+97.56
Burial cases, caskets, coffins, etc.,	7	21	6	-15	-71.43
Buttons and dress trimmings,	15	238	409	+171	+71.85
Carpetings,	12	443	1,374	+931	+210.16
Carriages and wagons,	143	1,061	1,022	-39	-3.68
Cement, kaolin, lime, and plaster,	10	80	48	+18	+43.83
Chemical preparations (compounded), .	12	55	78	+18	+32.78
Clocks, watches, and jewelry,	99	1,576	1,658	+82	+5.20
Clothing,	130	2,966	3,183	+217	+7.32
Cooking, lighting, and heating apparatus,	35	786	598	-138	-18.75
Cordage and twine,	29	785	919	+134	+17.07
Corks, bungs, and taps,	8	. 9	29	+20	+222.22
Cotton goods,	169	9,767	20,450	+10,688	+109.88
Cotton, woollen, and other textiles,	2	110	862	+252	+229.09
Crayons, pencils, crucibles, etc.,	4	12	8	-9	-75.00
Drugs and medicines,	27	420	881	-39	-9.29
Dyestuffs,	8	52	109	+57	+109.62
Earthen, plaster, and stone ware,	7	133	142	+9	+6.77
Electrical apparatus and appliances, .	23	752	645	-107	-14.23
Electropiating,	12	68	77	+9	+18.24
Emery and sand paper and cloth, etc., .	10	78	118	+40	+51.28
Fancy articles, etc.,	11	192	230	+38	+19.79
Fertilizers,	8	4	4	•_	•_
Fine arts and taxidermy,	8	4	2	-2	-50.00
Fireworks and matches,	4	88	68	—20	-22.73

[•] No change.

PERSONS EMPLOYED: BY INDUSTRIES—Continued.

RANGE OF EMPLOYMENT AND UNEMPLOYMENT: BY INDUSTRIES—1895, 1896—Concluded.

Industries.	Number of Estab- lishments	EXCESS OF OVER SI NUMBER OF EMPL	FALLEST P PERSONS	OR DECRE	SE (十), ASE (一), II SG
	Con- sidered	1895	1896	Number	Percent-
Flax, hemp, jute, and linen goods,	10	188	899	+211	+112.23
Food preparations,	819	8,421	2,905	-516	-15.08
Furniture,	119	1,247	1,301	+54	+4.83
Glass,	14	77	293	+216	+280.52
Glue, isinglass, and starch,	23	220	336	+116	+52.78
Hair work (animal and human),	7	20	28	+3	+15.00
Hose: rubber, linen, etc.,	4	544	730	+186	+34.19
Hosiery and knit goods,	42	1,586	1,933	+347	+21.88
Ink, mucilage, and paste	7	46	17	-29	-63.04
Ivory, bone, shell, and horn goods, etc.,	18	493	385	-108	-21.91
Leather	143	2,765	8,028	+263	+9.51
Liquors and beverages (not spirituous),	28	148	120	-28	-18.92
Liquors: malt, distilled, and fermented,	57	517	504	-13	-2.51
Lumber	82	481	460	-21	-4.37
Machines and machinery,	371	6,779	7,089	+310	+4.57
Metals and metallic goods.	882	5,010	4,795	-215	-4.29
Mixed textiles	12	262	389	+127	+48.47
Models, lasts, and patterns,	49	138	168	+25	+18.12
Musical instruments and materials.	65	589	889	+300	+50.93
Oils and illuminating fluids	9	41	95	+54	+131.71
Paints, colors, and crude chemicals,	28	74	60	-14	-18.92
Paper and paper goods	123	2,202	2,729	+527	+28.93
Dandaman Adlah adlah ada	4	11	6	-5	-45.45
Photographs and photographic materials,	24	196	208	+12	+6.12
Polishes and dressing	33	166	130	36	-21.69
Printing, publishing, and bookbinding, .	47	512	471		—8.01
Print works, dye works, and bleacheries,	47	926	1,600	+674	+72.79
Railroad construction and equipment.	16	679	998	+814	+46.24
Rubber and elastic goods,	41	2,824	3,726	+902	+31.94
Gaddlam and harman	41	125	135	+10	+8.00
0-1			105	,	+15.38
M. L. S M. D.	20	91	455	+14	
	. 51	441	736	+14	+80.84
Silk and silk goods,	9	407	***	+329	+33.02
Sporting and athletic goods,	9	424	564	+140	
Stone,	199	3,726	3,869	+142	+8.81
Straw and palm leaf goods,	21	8,563	3,659	+96	+2.69
Tallow, candles, soap, and grease,	60	104	115	+11	+10.58
Tobacco, snuff, and cigars,	48	604	570	-84	-5.63 •-
Toys and games (children's),	11	319	819		1
Trunks and valies,	7	42	48	+6	+14.29
Whips, lashes, and stocks,	15	100	105	+6	+5.00
Wooden goods,	153	1,169	917	-252	-21.56
Woollen goods,	122	8,822	5,879	+2,057	+53.83
Worsted goods,	27	2,874	7,283	+4,900	+206.78
ALL INDUSTRIES	4,609	93,189	118,830	+25,191	+27.05

PERSONS EMPLOYED: BY INDUSTRIES. AGGREGATES, BY MONTHS.

1895, 1896.

[This presentation shows the aggregate number of persons employed, by sex, during each month of the years 1895 and 1896, for all the establishments considered in each industry.]

AGRICULTURAL IMPLEMENTS. [8 Establishments.]

					ı		1895		1896			
	M	ONTES	J.	•		Males	Females	Totals	Males	Females	Totals	
January,						546	_	546	631	_	631	
February,					.	547	-	547	640	-	640	
March,					.	556	-	556	627	-	627	
April, .					. !	560	-	560	611	-	611	
May, .					.	549	- 1	549	612	- 1	612	
June, .					.	545	-	545	570	- 1	570	
July, .					.	521	-	521	447	- 1	447	
August,					.	493	-	493	411	- 1	411	
September.	, .					498	_	498	504	-	504	
October,					.]	559	-	559	578	-	578	
November,						567	-	567	562	-	562	
December,					.	581	-	581	617	- 1	617	

ARMS AND AMMUNITION. [12 Establishments.]

						11			
January,			.	1,376	170	1,546	1,269	120	1,389
February,		•	.	1,378	171	1,549	1,244	132	1,376
March,			.	1,433	159	1,592	1,306	122	1,428
April, .			.	1,478	159	1,637	1,377	155	1,532
May, .			.	1,468	154	1,622	1,343	146	1,489
June, .			.	1,471	162	1,638	1,382	155	1,587
July, .			.	1,448	163	1,611	1,882	155	1,537
August,				1,498	156	1,654	1,396	171	1,567
September	٠.		.	1,446	126	1,572	1,489	166	1,606
October,	٠.		.	1,457	170	1,627	1,492	128	1,620
November			.	1,365	175	1,540	1,581	112	1,648
December	, .			1,361	178	1,539	1,586	110	1,646
	-		- 1			'	1 1		

PERSONS EMPLOYED: BY INDUSTRIES—Continued. AGGREGATES, BY MONTHS—1895, 1896—Continued.

ARTISANS' TOOLS. [69 Establishments.]

							1895		1896			
	M	ONTH	3.			Males	Females	Totals	Males	Females	Totals	
January,						1,671	60	1,781	1,851	58	1,904	
February,						1,682	60	1,742	1,881	51	1,932	
March,		•			.	1,669	61	1,730	1,868	58	1,916	
April, .		•				1,442	62	1,504	1,840	58	1,893	
May, .			•		٠.	1,463	60	1,523	1,805	55	1,860	
June, .			•			1,677	61	1,788	1,795	55	1,850	
July, .		•				1,681	59	1,740	1,766	47	1,813	
August,					- [1,729	61	1,790	1,708	58	1,761	
September	, .	•	•			1,776	61	1,837	1,652	55	1,707	
October,		•	•		.	1,827	61	1,888	1,743	55	1,798	
November,	•	•	•	•		1,838	60	1,898	1,770	56	1,826	
December,		•			٠.	1,848	59	1,907	1,782	51	1,883	

AWNINGS, SAILS, TENTS, ETC. [82 Establishments.]

						1			
January,				109	82	141	95	34	129
February,	•	•		98	30	128	99	35	134
March,		•	•	136	89	176	112	41	153
April, .				112	45	157	112	47	159
May, .				117	48	165	121	55	176
June, .				138	47	180	126	54	180
July, .				132	45	177	119	46	165
August,				108	36	144	118	37	150
September				139	84	178	106	84	140
October,				149	29	178	109	36	145
November,				131	82	168	123	37	100
December,				118	31	149	107	85	142
•				1 1					

BICYCLES, TRICYCLES, ETC. [10 Establishments.]

			- 1	1		- 1		I	
January,				1,865	84	1,949	2,835	54	2,389
February,	•		.	2,032	95	2,127	2,541	64	2,605
March,			.	2,339	122	2,461	2,687	73	2,760
April, .			.	2,877	105	2,482	2,830	77	2,907
May, .			.	2,551	110	2,661	2,774	76	2,850
June, .	•		.	2,121	84	2,205	2,220	52	2,272
July, .			.	1,677	66	1,743	1,340	30	1,370
August,			.	1,442	50	1,492	1,003	41	1,044
September,		•	.	1,568	99	1,662	943	86	979
October,			.	1,670	78	1,748	1,163	38	1,901
November,			.	1,778	72	1,845	1,508	34	1,587
December,			.	1,992	88	2,075	1,971	41	2,012

PERSONS EMPLOYED: BY INDUSTRIES - Continued. AGGREGATES, BY MONTHS - 1895, 1896 - Continued.

BOOTS AND SHOES. [605 Establishments.]

							1895		1896			
	M	ONTH	9.			Males	Females	Totals	Males	Females	Totals	
January,			•	•		29,629	12,929	42,558	28,360	12,743	41,108	
February,						29,741	12,878	42,614	29,565	13,366	42,931	
March,					.	80,664	13,361	44,025	29,979	13,216	43,195	
April, .					.	30,776	18,375	44,151	80,350	13,379	48,729	
May, .					.	30,677	13,606	44,282	80,200	13,545	43,745	
June, .					.	31,253	13,618	44,866	29,932	13,339	43,271	
July, .						80,589	13,112	43,701	28,979	12,699	41,678	
August,					.]	81,044	18,499	44,548	29,370	18,189	42,559	
September	, .					80,217	18,125	48,842	29,327	13,196	42,528	
October,					.	28,920	12,578	41,498	28,981	18,148	42,074	
November	, .				.	28,460	12,391	40,851	27,371	12,366	89,787	
December,					٠, ا	28,597	12,603	41,200	27,673	12,574	40,247	

BOXES (PAPER AND WOODEN). [158 Establishments.]

							1			
January,				.	2,047	1,694	8,741	2,095	1,691	3,786
February,				٠,	2,070	1,702	3,772	2,088	1,671	3,759
March,		•		.	2,086	1,738	3,824	2,109	1,673	3,782
April, .				.]	2,142	1,733	3,875	2,118	1,672	8,785
May, .				.	2,142	1,748	3,890	2,183	1,671	8,804
June, .				.	2,086	1,724	3,810	2,081	1,658	3,789
July, .				.	1,978	1,670	3,648	1,972	1,597	3,569
August,				.	1,962	1,656	3,618	1,895	1,659	8,454
September	, .				2,023	1,769	8,792	1,921	1,618	3,539
October,				.	2,118	1,885	8,958	2,028	1,668	3,691
November	, .			.	2,118	1,797	8,915	2,059	1,641	8,700
December,				.	2,094	1,764	8,858	2,079	1,651	8,730
				- 1	-		- 1	1 1		

BRICK, TILES, AND SEWER PIPE. [56 Establishments.]

January,					451	5	456	468	5	478
February,					460	5	465	489	5	494
March,					492	5	497	507	5	512
April, .					1,117	5	1,122	1,294	5	1,299
May, .					1,980	5	1,985	2,063	5	2,068
June, .					2,022	5	2,027	2,147	5	2,152
July, .					1,998	4	2,002	2,115	4	2,119
August,					1,891	4	1,895	2,077	4	2,081
September	, .				1,817	4	1,821	1,853	4	1,857
October,					1,448	5	1,448	1,863	4	1,867
November	, .				889	5	844	861	4	865
December,		•	•	•	571	5	576	578	4	582
				- 1	1	i .		11 1		I

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PERSONS EMPLOYED: BY INDUSTRIES—Continued. AGGREGATES, BY MONTHS—1895, 1896—Continued. BROOMS, BRUSHES, AND MOPS. [19 Establishments.]

				1		1895	'	1896			
	М.	ONTH	J.		Males	Females	Totals	Males	Females	Totals	
January,					888	299	682	387	310	697	
February,				٠.	892	808	700	395	326	721	
March,				.	398	815	713	386	825	711	
April, .					401	821	722	395	334	729	
May, .				.	385	815	700	373	325	698	
June, .				.	890	813	703	369	322	691	
July, .					887	298	685	304	259	563	
August,					373	295	668	343	277	620	
Sep tem ber	, .				376	295	671	357	300	657	
October,				.	889	307	696	394	324	719	
November	, .			.	406	815	721	408	338	746	
December,				.]	417	311	728	428	350	77	

BURIAL CASES, CASKETS, COFFINS, ETC. [7 Establishments.]

						1		1	
January,				179	19	198	179	20	199
February,				179	19	198	177	20	197
March,			.	184	19	203	178	20	198
April, .				180	19	199	178	20	198
May, .			. !	183	19	202	177	20	197
June, .				186	19	205	178	20	198
July, .			.	179	17	196	178	20	198
August,			.	178	15	193	176	19	195
September				183	19	202	179	19	198
October,			.	187	20	207	179	19	198
November,			.	186	20	206	180	19	199
December,		٠.		188	20	208	190	19	199
•					4	- 11	1	1	

BUTTONS AND DRESS TRIMMINGS. [15 Establishments.]

				- 1		- 11			
January,				265	465	730	380	541	921
February,			.	286	460	746	358	508	861
March,				298	482	775	852	478	830
April, .			.	284	486	770	846	471	817
May, .			.	272	492	764	831	465	796
June, .			.	280	485	765	338	438	776
July, .			.	277	461	738	317	412	729
August,			.	281	466	747	301	399	700
September,			.	285	467	752	284	411	695
October,		.•		297	506	803	282	414	696
November,			.	323	526	849	801	422	723
December,			.	299	482	781	328	427	755
-			- 1		ı	- 11	1	1	

PERSONS EMPLOYED: BY INDUSTRIES - Continued. AGGREGATES, BY MONTHS - 1895. 1896 - Continued.

CARPETINGS. [12 Establishments.]

						1895			1896	
	M(ONTH	8.		Males	Females	Totals	Males	Females	Totals
January,					2,182	2,519	4,701	2,152	2,472	4,624
February,				.	2,184	2,491	4,675	2,174	2,362	4,536
March,					2,083	2,460	4,543	2,191	2,285	4,476
April, .				.	2,101	2,385	4,486	2,115	2,294	4,409
Мау, .					2,152	2,369	4,521	2,165	2,411	4,576
June, .					2,209	2,468	4,677	2,153	2,419	4,572
July, .				.	2,206	2,450	4,656	2,178	2,298	4,476
August,				.	2,251	2,416	4,667	2,078	2,088	4,161
Beptember	, .			.	2,201	2,426	4,627	1,556	1,363	2,919
October,				.	2,235	2,400	4,635	1,891	1,793	8,684
November,					2,151	2,377	4,528	2,047	2,035	4,082
December,					2,238	2,438	4,676	2,126	2,163	4,289

			- 1	i		1	1	1	
January,			.	2,116	20	2,136	2,047	20	2,067
February,			.	2,206	22	2,228	2,116	22	2,138
March,			.	2,356	24	2,380	2,209	20	2,229
April, .			.	2,470	23	2,493	2,331	22	2,358
May, .			.	2,507	18	2,525	2,868	22	2,390
June, .			.	2,426	19	2,445	2,252	19	2,271
July, .			.	2,011	13	2,024	1,820	12	1,832
August,				1,936	10	1,946	1,686	11	1,697
September	••		٠,	1,906	11	1,917	1,599	8	1,607
October,			.	1,915	11	1,926	1,590	9	1,599
November	, .		٠.	1,936	9	1,945	1,626	10	1,636
December				1,979	14	1,998	1,695	13	1,708
			ı			1			

CEMENT, KAOLIN, LIME, AND PLASTER. [10 Establishments.]

				1	1	- 11			
January,				108	<u>.</u> [108	109	-	109
February,				108	-	108	108	-	108
March,				118	-	118	98	-	98
April, .			.	126	-	126	118	-	118
May, .				128	-	123	125	-	125
June, .			.	127	-	127	127	-	127
July, .			.	122	-	122	126	-	126
August,				125	-	125	125	-	125
September	, .			126	-	126	125	-	125
October,				124	-	124	180	-	130
November			.	123	- 1	123	128	-	128
December,				116	- 1	116	105	-	105
			1		i	- 11	1	1	_

42 STATISTICS OF MANUFACTURES. [Pub. Doc.

PERSONS EMPLOYED: BY INDUSTRIES—Continued. AGGREGATES, BY MONTHS—1895, 1896—Continued. CHEMICAL PREPARATIONS (COMPOUNDED). [12 Establishments.]

						1895		1	1896	
	M	ONTH!	3.		Males	Females	Totals	Males	Females	Totals
January,					344	2	346	342	2	344
February,		•		.	843	2	845	338	1 1	339
March,		•		.	849	2	851	887	1 1	338
April, .				.	338	2	840	331	2	333
Мау, .				.	827	2	329	342	2	344
June, .				.	343	2	845	841	8	844
July, .			•	.	858	2	355	314	8	817
August,		•		. 1	858	2	860	308	8	311
September	, .			.	851	2	853	306	8	809
October,				.	850	2	852	324	2	326
November,				.	348	2	350	346	2	348
December,				.	340	2	842	842	2	844

CL	oc	KS,	w	AT(CHE	S, AND	JEWE	LRY.	[99 Estab	lishment	s.]
January,						2,486	1,189	8,675	2,426	1,173	3,599
February,						2,518	1,241	8,759	2,455	1,163	3,618
March,					٠.	2,407	1,197	8,604	2,852	1,126	3,478
April, .					٠.	2,194	1,047	8,241	2,213	1,029	3,242
Мау, .					.	2,177	1,049	3,226	2,172	992	3,164
June, .					.	2,309	1,224	8,533	2,199	1,035	3,234
July, .					٠.	2,306	1,248	8,554	2,059	988	3,047
August,					.	2,194	1,200	3,894	1,923	930	2,853
September	, .					2,362	1,248	8,610	2,069	921	2,990
October,	•				.	2,493	1,256	3,749	2,191	954	3,145
November	, .				.	2,469	1,229	8,698	2,881	1,031	8,412
December,		•	•	•	\cdot	2,476	1,159	3,635	2,455	1,077	3,532

						HING.	[180 Establishments.]				
January,						2,181	4,706	6,887	2,041	4,908	6,949
February,				•		2,256	4,979	7,235	2,083	5,226	7,309
March,						2,258	5,377	7,630	2,048	5,383	7,881
April, .						2,220	5,286	7,506	2,029	5,267	7,296
May, .					.	2,198	5,238	7,431	1,980	5,209	7,189
June, .						2,207	5,016	7,223	1,944	4,918	6,862
July, .						2,210	4,048	6,253	1,896	8,942	5,838
August,						2,278	4,406	6,684	1,951	4,263	6,214
September,					.	2,302	5,000	7,802	1,990	5,034	7,094
October,						2,368	5,865	7,733	2,009	5,263	7,272
November,					.	2,875	5,159	7,534	2,008	5,018	7,026
December,					.	2,350	4,959	7,309	1,925	4,912	6,837

PERSONS EMPLOYED: BY INDUSTRIES—Continued.

AGGREGATES, BY MONTHS—1895, 1896—Continued.

COOKING, LIGHTING, AND HEATING APPARATUS. [35 Establishments.]

					1895			1896	
24	(ONTH	8.		• Males	Females	Totals	Males	Females	Totals
January, .	•			1,187	4	1,191	1,857	4	1,361
February, .		•		1,169	5	1,174	1,408	5	1,408
March, .	•			1,885	5	1,390	1,463		1,468
April,				1,401	5	1,408	1,473	5	1,478
May,				1,437	5	1,442	1,508	5	1,508
June,				1,452	5	1,457	1,547	6	1,558
July,				1,300	5	1,305	1,463	6	1,469
August, .				1,488	5	1,493	1,582	6	1,588
September, .				1,645	5	1,650	1,684	7	1,641
October, .				1,663	5	1,668	1,716	7	1,728
November, .		•		1,613	5	1,618	1,662	6	1,668
December, .	•	•		1,585	5	1,590	1,611	6	1,617
	C	ORD	AGE	AND T	WINE.	[29 Esta	blishme	nts.]	· I
January, .				1,179	1,019	2,198	1,397	1,104	2,501
February, .				1,150	1,039	2,189	1,407	1,168	2,578
March, .	•			1,176	1,066	2,242	1,626	1,203	2,829
April,				1,202	1,118	2,320	1,652	1,286	2,88
Мау,	•	•		1,238	1,123	2,361	1,688	1,186	2,874
June,	•	•		1,231	1,049	2,280	1,657	1,178	2,830
July,	•	•		1,229	1,063	2,292	1,598	1,056	2,654
August, .	•	•		1,439	1,139	2,578	1,146	984	2,130
September, .		•		1,487	1,128	2,615	1,081	958	1,998
October, .	•	•		1,490	1,128	2,618	1,080	977	2,007
November, .	•	•		1,408	1,066	2,494	1,172	996	2,168
December, .	•	•		1,210	987	2,197	1,174	976	2,150
	CO	RKS,	BUN	GS, AN	D TAPS	3. [3 Es	tablishm	ents.]	
January, .				34	8	87	25	4	29
February, .	•	•		84	8	87	23	1	24
March, .				33	8	86	83	12	44
April,		•		84	8	87	82	12	44
Мау,				85	8	88	82	12	44
June,				85	4	89	86	12	44
July,				84	4	38	85	12	4
August, .		•		84	4	88	85	12	4
September, .				84	8	87	85	12	4
October, .				82	-	82	33	13	4
				0.5	1	01	یہ اا	1	i

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44 STATISTICS OF MANUFACTURES. [Pub. Doc.

PERSONS EMPLOYED: BY INDUSTRIES—Continued. AGGREGATES, BY MONTHS—1895, 1896—Continued.

COTTON GOODS. [169 Establishments.]

							1		
•	••				1895			1896	
	Монтн	s. 		Males	Females	Totals	Males	Females	Totals
January,				39,197	40,820	80,017	40,823	41,182	82,005
ebruary.				39,246	40,827	80,073	40,864	41,195	82,059
March,				39,550	40,863	80,413	40,909	41,291	82,200
April, .				39,363	40,938	80,301	40,346	40,644	80,990
				39,282	41,019	80,301	39,964	40,359	80,32
une, .				39,389	40,697	80,086	39,586	89,769	79,35
				38,619	89,713	78,332	37,592	87,094	74,686
lugust,				38,288	39,462	77,750	83,670	83,026	66,69
eptember,				39,178	40,244	79,422	85,736	85,519	71,25
october,				39,124	40,293	79,417	88,921	39,020	77,94
Vovember,		·		39,761	40,953	80,714	39,567	89,663	79,23
December,			: :	39,785	40,986	80,771	40,832	40,559	80,89
				÷	·	·	<u>'</u>		
COTTO	1, W	001	LEN,	AND O	THER T	EXTILE	S. [2 I	E sta blish:	ments.
	-				1		i	T	
anuary,		•		750	865	1,615	828	805	1,68
ebruary,		•		757	872	1,629	871	. 865	1,73
arch,		•		782	905	1,687	887	900	1,78
pril, .		•		782	900	1,682	907	896	1,80
ay, .		•		774	902	1,676	895	877	1,77
une, .				762	883	1,645	875	886	1,76
uly, .				742	873	1,615	888	873	1,75
ugust,				740	880	1,620	905	894	1,79
eptember,		٠,		755	860	1,615	906	923	1,82
ctober, .				769	857	1,626	960	978	1,98
lovember,				665	1,012	1,677	838	887	1,67
ecember,	•	•		761	880	1,641	834	834	1,66
CRA	YON	8, I	PENCI	LS, CRU	CIBLES	, ETC.	[4 Esta	blishmen	ts.]
anuary,				17	28	40	21	15	3
ebruary,				19	23	42	21	15	3
arch,				22	23	45	21	15	8
pril, .				22	24	46	21	15	3
ay,				21	24	45	20	15	8
ine,				21	24	45	19	15	8
aly,				22	24	46	18	15	3
ugust,				18	24	42	17	. 15	3
eptember,				18	24	42	20	15	3
ctober,			•	18	16	84	21	15	3
ovember,	•	:		16	16	82	21	15	3
ecember	•	•	•	16	16	82	21	15	3

PERSONS EMPLOYED: BY INDUSTRIES—Continued. AGGREGATES, BY MONTHS—1895, 1896—Continued.

DICOGO AND MEDICINED. (2) Madebille michelle.	DRUGS AN	D MEDICINES	. [27 Establishments.]	1
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January, . February, . March, . April, . May, . June, .	TONTE						i i	•		
February, . March, . April, . May, . June, .					Males	Females	Totals	Males	Females	Totals
March, . April, . May, . June, .			•	•	296	230	528	300	227	527
April, May, June,					306	242	548	304	250	554
May, June,			•		823	261	584	826	248	574
June,			•		403	800	703	405	289	694
•					369	281	650	867	269	636
					869	266	685	863	254	617
July,	•				294	229	523	299	217	516
August, .					841	192	588	854	190	544
September,.					420	843	768	407	805	712
October, .					432	877	809	408	352	760
November, .			•		419	870	789	420	328	748
December, .				.	385	861	746	881	292	678
							tablishme	-	1 . 1	
• .					140	11	151	124	10	
February, .	:	:		•	123	11 15	151 188	124 124	18	187
February, . March, .	•	:	:		123 139	11 15 17	151 138 156	124 124 107	18 18	187 120
February, . March, . April,	· · ·	:	•	•	128 189 135	11 15 17 17	151 138 156 152	124 124 107 106	18 18 13	187 120 119
February, . March, . April, . May, .	•		•	•	123 189 135 137	11 15 17 17	151 138 156 152 154	124 124 107 106 116	18 18 13 18	187 120 119 129
February, . March, . April, . May, . June, .			•	•	123 189 135 137 183	11 15 17 17 17 17	151 188 156 152 154 149	124 124 107 106 116 91	18 13 13 18	187 120 119 129 108
February, . March, . April, May, June, July,	•		•	•	128 189 135 137 183 183	11 15 17 17 17 16 16	151 138 156 152 154 149	124 124 107 106 116 91 125	18 13 13 18 14 14	187 120 119 129 108
February, . March, . April, May, June, July, August, .	•			•	128 189 135 187 183 183	11 15 17 17 17 16 16	151 138 156 152 154 149 149	124 124 107 106 116 91 125 108	18 13 13 18 14 14	187 120 119 129 108 189
February, . March, . April, May, June, July, August, . September, .	•	•			123 139 135 137 133 133 138	11 15 17 17 17 16 16 16	151 138 156 152 154 149 149 154	124 124 107 106 116 91 125 108	18 13 13 14 14 14 12	187 120 119 129 108 189 120
May, June, July, August, September, . October,	•	•			123 139 135 137 133 133 138 140	11 16 17 17 17 18 16 16 16	151 138 156 152 154 149 149 154 155	124 124 107 108 116 91 125 108 77	18 18 13 18 14 14 12 17	187 120 119 129 108 189 120 94
February, . March, . April, May, June, July, August, . September, .	•	•			123 139 135 137 133 133 138	11 15 17 17 17 16 16 16	151 138 156 152 154 149 149 154	124 124 107 106 116 91 125 108	18 13 13 14 14 14 12	184 187 120 119 129 105 189 120 94 126 188

January,				159	18	172	181	12	143
February,			.	200	15	215	129	12	141
March,			. 1	163	13	176	136	12	148
April, .			.	178	17	195	198	13	211
May, .			.	255	17	272	220	15	235
June, .			.	289	17	256	236	15	251
July, .			.	247	18	265	232	25	257
August,			.	266	21	287	246	25	271
September			.	228	19	247	248	25	273
<u></u> .			.	224	21	245	181	25	206
November,			. !	201	22	223	200	25	225
December.				191	15	206	140	17	157
•			- 1		- 1	11		1	

46 STATISTICS OF MANUFACTURES. [Pub. Doc.

PERSONS EMPLOYED: BY INDUSTRIES - Continued. AGGREGATES, BY MONTHS - 1895, 1896 - Continued.

ELECTR	RIC	ΔL	AI	PA	RA	TUS AN	ND APP	LIANCE	8. [23	Establis	nments.]
							1895			1896	
	Mo	PTH				Males	Females	Totals	Males	Females	Totals
January,						2,587	385	2,972	2,320	875	2,695
February,	•	•	•		•	2,548	883	2,926	2,347	871	2,718
March,			•			2,525	374	2,899	2,446	845	2,791
April, .	•	•				2,496	400	2,896	2,370	847	2,717
May, .	•	•	•	•	•	2,672	417	3,089	2,456	839	2,795
June, .	•	•	•	•	•	2,675	431	8,106	2,485	841	2,826
July, .	•		•	•	•	2,700	435	3,185	2,464	844	2,808
August,	•	•	•	•	•	2,604	424	8,028	2,486	339	2,775
September,	•	•	•	•	•	2,505	380	2,885	2,265	836	2,601
October,	•	•	•	•	•	2,368	385	2,758	2,203	821	2,524
November,		٠	•	•		2,372	875	2,747	2,261	848	2,609
December,	•	٠	•		•	2,399	368	2,767	2,275	329	2,604
January,			•	•		83	6	89	130	4	134
February,						89	6	95	127	4	131
March,						116	7	123	130	4	134
April, .						122	7	129	155	4	159
Мау, .						121	7	128	168	4	167
June, .						114	7	121	139	4	143
July, .						107	7	114	122	4	126
August,		•	•		•	99	7	106	104	4	108
September,			•			111	7	118	94	4	98
October,			•	•		119	7	126	100	4	104
Novembér,		•			•	130	7	137	106	4	110
December,	•	•	•	<u>·</u>	•	136	7	148	106	4	110
EMERY	AN	D	SA	ND	PA	PER A	ND CLO	тн, ет	'C. [10	Est a blish	ments.]
Tommonu						272	8	275	314	2	316
January, February,	•	•	•	•	•	272 267	8	275	314	2 2	830
March,	•	•	•	•	•	265	8	268	852	2	354
April, .	:	:		:	•	258	3	261	371	2	373
May, .	•	:	•	:	:	263	3	266	353	2	355
June, .	•	:	:			262	3	265	342	2	844
July, .	•	:	•	•	•	266	8	269	333	2	. 335
August,	:	:	•	•		274	8	277	308	2	310
September,	-	:		:		280	8	283	803	2	305
October,	•	:	:	:		280	8	283	285	2	287
November.		:	:		•	297	3	300	304	2	306

December, .

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PERSONS EMPLOYED: BY INDUSTRIES—Continued. AGGREGATES, BY MONTHS—1895, 1896—Continued.

FANCY ARTICLES, ETC. [11 Establishments.]

	F	LNCY	AR	TICLES	, ETC.	[11 Esta	blishmer	its.]	
					1895			1896	
	Монтн). 		Males	Females	Totals	Males	Females	Totals
January,				85	209	294	108	206	814
February,				78	152	225	82	162	244
March,			•	71	111	182	78	124	202
April, .				68	104	172	74	100	174
• •			•	65	101	166	78	109	182
			•	66	115	181	71	104	175
			•	68	188	206	78	106	184
			•	76	153	229	86	112	198
September,			•	82	169	251	92	145	237
•		• •		88	196	284	100	178	278
November,				108	221	829	111	184	295
December,	• •		•	104	230	884	103	219	322
Tonno				49	-	stablishr		<u> </u>	*^
January,	• •		•	50	-	49	50 50	-	50 50
February, March.				50	[50 50	50	:	50
A		: :		50	[50	51	[51
May, .		• •		49	[49	50		50
•		: :		50	_	50	49	_	49
				49	_	49	49	-	49
				48	-	48	49	-	49
September,				48	-	48	49	-	49
October,				50	-	50	58	-	58
November,				49	-	49	58	-	-58
December,	• •	• •	•	49	-	49	53	-	53
	FINE	ART	S Al	ND TA	KIDERM	Y. [3]	Est a blish	ments.]	
January,				9	1	10	14	1	15
February,				9	1	10	14	ı	15
March,				9	1	10	15	1	16
April, .				9	1	10	18	1	14
May, .				9	1	10	14	1	15
T				9	1	10	18	1	14
July, .				9	1	10	. 18	1	14
August,				9	1	10	13	1	14
September,			•	10	1	11	14	1	15
October,				10	1	11	13	1	14
November,				12	1	13	14	1	15

PERSONS EMPLOYED: BY INDUSTRIES—Continued. AGGREGATES, BY MONTHS—1895, 1896—Continued. FIREWORKS AND MATCHES. [4 Establishments.]

							1895		1996			
	Months.						Females	Totals	Males	Females	Totals	
January,						62	89	101	52	41	93	
February,					.	66	37	108	56	38	94	
March,					.	65	36	101	58	42	100	
April, .					.	67	88	105	70	44	114	
May, .					.	64	89	103	63	42	105	
June, .			•			73	87	110	68	89	107	
July,					.	44	27	71	58	40	98	
August,					.	40	12	52	46	25	71	
September	, .				٠.	85	14	49	51	81	82	
October,						85	18	53	54	23	77	
November	, .				- 1	41	19	60	61	80	91	
December,					.	54	88	87	65	80	95	

FLAX, HEMP, JUTE, AND LINEN GOODS. [10 Establishments.] 1,173 1,082 2,255 1,160 1,146 2,306 January, . February. . 1.160 1.089 2.249 1.152 1.161 2.313 March, 1.167 1,082 2.249 1,171 1,144 2.315 April, . 2,288 1,181 1,107 1,185 1,187 2,372 Mav. . 1.184 1.084 2.268 1.170 1.179 2.349 June, . 1,182 1,185 1,188 1,095 2,277 2,873 July, . . 1,283 1,034 2,817 1,218 1,181 2,394 1.008 2,289 August. 1.281 1.216 1.157 2.373 1,282 1,037 2,819 989 1,109 2.098 September, . 1,049 2,228 1,086 October, . 1,179 843 1,929 2,222 November. . 1.178 1.049 1.049 1,107 2.156 1,157 December, . 1,045 2,202 1,076 1,140 2,216

	F	OD	P	REP	ARATI	ons. [B19 Esta	blishmen	ts.]	
January,					5,389	1,698	7,087	5,082	1,768	6,850
February,				.	5,272	1,707	6,979	5,102	1,824	6,926
March,					4,676	1,817	6,498	4,625	1,870	6,495
April, .				.	4,557	1,783	6,840	4,576	1,869	6,445
May,				.	4,574	1,778	6,352	,4,767	1,839	6,606
June, .				.	4,681	1,788	6,469	4,876	1,846	6,722
July, .				.	4,834	1,840	6,674	4,912	1,842	6,754
August,				.	4,708	1,768	6,476	4,834	1,768	6,602
September,				.	4,803	2,038	6,841	4,921	1,981	6,902
October,				.	4,967	2,188	7,145	5,027	2,221	7,248
November,					5,038	2,349	7,887	5,103	2,293	7,396
December,				.	4,924	2,192	7,116	5,069	2,173	7,281

PERSONS EMPLOYED: BY INDUSTRIES - Continued. AGGREGATES, BY MONTHS - 1895, 1896 - Continued.

FURNITURE. [119 Establishments.]

							1895		1896			
	Montes.						Females	Totals	Males	Females	Totals	
January,						2,916	803	8,219	2,922	275	8,197	
February,					.	2,998	816	8,314	3,016	823	3,389	
March,						3,099	848	3,442	8,151	828	8,479	
April, .					.	8,082	858	8,440	3,167	885	3,502	
May, .						3,165	870	8,535	8,150	364	3,514	
June, .						8,100	368	3,468	8,014	879	3,898	
July, .					.	3,021	882	8,358	2,642	291	2,98	
August,					.	8,021	848	8,369	2,692	841	8,088	
September			•		.	8,288	358	3,591	2,809	848	8,157	
October,					.	8,508	407	3,915	2,962	867	3,829	
November,						8,588	407	8,940	2,972	366	8,886	
December,					.	3,289	363	8,652	2,922	820	3,242	

GLASS.	[14	Establishments.	

January,				311	21	832	811	17	328
February,		•		807	22	829	858	16	874
March,		•		809	22	881	849	17	366
April, .				299	22	891	308	16	819
May, .				294	22	316	200	15	814
June, .				298	22	815	288	11	294
July, .				261	18	279	282	11	248
August,				889	23	862	289	12	801
September	, .			8 57	23	880	206	7	218
October,				861	28	884	208	8	216
November				872	23	895	289	15	304
December,				879	28	402	299	16	815
				1		1		1	

GLUE, ISINGLASS, AND STA	RCH. [23 Establishments.]
--------------------------	---------------------------

January,						441	58	499	525	67	592
	•	•	•	•	•						
February,	•	•	•	•	•	451	58	509	522	59	581
March,						844	48	887	454	62	516
April, .						821	43	864	864	50	404
May, .						310	44	854	846	51	897
June, .						242	28	270	295	51	346
July, .						190	24	214	207	84	241
August,						181	20	201	190	19	209
Beptember	, .					199	21	220	221	21	242
October,						288	26	814	307	88	840
November						817	89	356	848	44	887
December,				•		304	50	458	440	57	497
						l I	ł	1	l.		1

PERSONS EMPLOYED: BY INDUSTRIES—Continued. AGGREGATES, BY MONTHS—1895, 1896—Continued. HAIR WORK (ANIMAL AND HUMAN). [7 Establishments.]

							1995		1896			
	M	ONTH	B.			Males	Females	Totals	Males	Females	Totals	
January,						75	74	149	68	76	144	
February,			٠.		.	75	70	145	70	76	146	
March,			•	•	.	75	85	160	70	82	152	
April, .						74	88	162	71	82	153	
May, .					.	74	76	150	72	82	154	
June, .					.	76	73	149	74	77	151	
July, .					٠,	77	72	149	74	79	153	
August,					- 1	72	72	144	74	71	146	
September,	•				.	74	71	145	71	69	140	
October,					.	78	72	145	69	64	133	
November,					.	78	76	149	69	65	184	
December,					.	74	72	146	70	66	136	

HOSE: RUBBER, LINEN, ETC. [4 Establishments.]

				l	1	1 1	1	1	
January,				876	58	434	750	242	992
February,				451	72	523	784	224	1,008
March,				519	76	595	862	315	1,177
April, .				524	82	606	609	801	910
May, .			.	518	98	616	695	443	1,138
June, .				468	89	557	514	169	683
July, .			- 1	319	58	877	455	108	563
August,				802	44	846	874	75 ·	449
September				299	58	352	384	78	462
October,				878	75	453	891	77	468
November				585	105	640	430	89	519
December				779	110	889	464	102	566
						!!!	ł		

HOSIERY AND KNIT GOODS. [42 Establishments.]

January,				1,810	8,575	5,885	1,881	4,115	5,996
February,			.	1,794	3,611	5,405	1,867	4,050	5,917
March,				1,807	8,598	5,405	1,846	4,088	5,929
April, .				1,887	8,564	5,451	1,741	4,022	5,763
May, .			.	1,881	8,594	5,475	1,778	4,022	5,795
June, .			.	1,897	3,678	5,570	1,725	3,893	5,618
July, .			.	1,878	8,498	5,871	1,642	8,755	5,397
August,				1,959	8,653	5,612	1,557	3,422	4,979
September,				1,928	8,731	5,659	1,690	8,312	5,002
October,			.	1,967	8,965	5,932	1,770	8,831	5,601
November,			[1,982	4,083	6,065	1,830	3,964	5,794
December,			.	1,952	8,964	5,916	1,795	8,889	5,684

PERSONS EMPLOYED: BY INDUSTRIES—Continued. AGGREGATES, BY MONTHS—1895, 1896—Continued. INK, MUCILAGE, AND PASTE. [7 Establishments.]

						1895			1896	
	M	ONTE	S.		Males	Females	Totals	Males	Females	Totals
January,					81	19	50	82	20	52
February,					36	19	55	87	20	57
March,					42	24	66	48	25	68
April, .					42	24	66	43	24	67
May,				.	43	21	64	44	21	65
June, .				.	36	21	57	87	21	58
July, .				.	40	21	61	87	19	56
August,				.	41	22	63	86	18	54
September				. [47	84	81	41	21	62
October,	•			.	42	54	96	87	24	61
November.				.	88	21	59	87	21	58
December,				. [82	20	52	32	19	-51

IVORY, BONE, SHELL, AND HORN GOODS, ETC. [18 Establishments.]

January,				731	154	885	667	146	818
February,			.	793	156	949	684	145	829
March,			. 1	822	168	990	678	162	840
April, .			. 1	748	168	911	589	177	766
May, .			.	648	158	796	550	171	721
June, .			.	591	145	736	525	159	684
July, .			.	563	126	689	499	188	637
August,			.	560	181	691	488	105	598
September,	, .		٠.	604	141	745	497	108	608
October,				672	151	823	501	112,	618
November,			.	596	118	714	518	117	680
December,			.	635	141	776	545	111	656

LEATHER. [148 Establishments.]

January,				6,637	273	6,910	6,489	292	6,781
February,			.	6,647	271	6,918	6,432	278	6,710
March,			.	6,546	266	6,812	6,264	256	6,520
April, .		. •	.	6,655	269	6,924	6,220	262	6,482
May, .			.	6,859	271	7,130	6,167	261	6,428
June, .			.	7,099	268	7,367	6,126	246	6,872
July, .			.	7,170	259	7,429	6,081	238	6,264
August,				7,351	258	7,609	5,999	247	6,246
Septem ber	,.			7,393	282	7,675	5,696	260	5,956
October,			.	7,007	287	7,294	5,547	254	5,801
November	, .		.	6,674	292	6,966	5,873	264	6,137
December,		•		6,603	292	6,895	6,100	281	6,381
			- 1	i i		6		1	

PERSONS EMPLOYED: BY INDUSTRIES—Continued.

AGGREGATES, BY MONTHS—1895, 1896—Continued.

LIQUORS AND BEVERAGES (NOT SPIRITUOUS). [28 Establishments.]

						shments.]			
						1995			1896	
	VTH				Males	Females	Totals	Males	Females	Totals
January, .					136	1	187	131	_	131
February,					137	1	138	133	-	133
March, .					144	2	146	140	1	141
April,					164	3	167	164	2	166
úay,					211	8	214	196	8	199
lune,					. 252	8	255	214	8	217
July,					258	4	262	285	8	238
August, .					249	4	253	228		231
leptember, .					219	2	221	196	i -	196
October, .					185	2	187	155	_	155
November, .					159	2	161	142	-	142
December, .	•				142	2	144	188	-	133
January, .					1,432	2	1,484	1,519	8	1,525
February, .	•	·	•	:	1,392	4	1,396	1,561	4	1,566
farch,					1,465	4	1,469	1,527	4	1,581
April,					1 482	4	1,486	1,586	4	1,590
May, .					1 700	. 4	1,584	1,711	6	1,717
June,					1,715	4	1,719	1,728	6	1,734
July,					1,744	4	1,748	1,796	6	1,802
August, .					1,775	4	1,779	1,842	6	1,848
September, .					1,728	4	1,782	1,751	5	1,756
October, .					1,682	4	1,686	1,757	4	1,761
November, .					1,672	8	1,675	1,656	4	1,660
December, .	•	•	•	•	1,606	8	1,609	1,684	4	1,638
			1	UU	BER.	[32 Esta	blishmen	ıts.]		
January, .					686	5	691	651	8	659
		•			680	5	635	644	8	652
• • •					646	5	651	622	9	631
February, .	•	•	•	•		1	1 1			
February, . March, .	:	:		:	848	11	854	798	11	1
February, . March, . April,	:	:				1	854 846	798 855	11 12	867
February, . March, . April, May,		•	•	•	848	11 11 11		855 759	12 12	867 771
February, . March, . April, May, June,	•	•		•	848 835	11 11	846	855 759 664	12	867 771
February, . March, . April, May, June,	•	•	•	•	848 885 761	11 11 11	846 772	855 759	12 12	967 771 678
February, . March, . April, . May, . June, . July, . August, .	•	•		•	848 835 761 720	11 11 11 11	846 772 781	855 759 664 638 742	19 12 11 9 11	867 771 678 647
February, . March, . April, . May, . June, . July, . August, . September, .	•	•		•	848 835 761 720 788	11 11 11 11	846 772 781 744	855 759 664 638	12 12 11 9	867 771 675 647 758
February, . March, . April, . May, . June, . July, . August, .	•	•		•	848 835 761 720 783 748	11 11 11 11 11 12	846 772 781 744 760	855 759 664 638 742	19 12 11 9 11	809 867 771 675 647 758 760

PERSONS EMPLOYED: BY INDUSTRIES - Continued. AGGREGATES, BY MONTHS - 1895, 1896 - Continued. MACHINES AND MACHINERY. [871 Establishments.]

						1895			1896	
	M	ONTH	.		Males	Females	Totals	Males	Females	Totals
January,					15,168	826	15,480	18,772	412	19,184
February,				.	15,184	825	15,509	18,788	386	19,174
March,				.	15,159	298	15,452	18,810	397	19,207
April, .				.	14,658	816	14,989	17,845	884	18,229
Мау, .				.	15,425	828	15,758	17,817	810	18,127
June, .					16,156	817	16,473	17,572	822	17,894
July, .					16,841	810	17,151	17,480	308	17,788
August,				.	17,461	811	17,772	17,217	800	17,517
September	, .			.	18,048	831	18,374	16,868	801	17,160
October,				.	18,268	844	18,612	17,094	828	17,422
November,				.	18,881	881	18,762	17,029	886	17,865
December,				.	18,247	400	18,647	17,124	854	17,478

METALS AND METALLIC GOODS. [882 Establishments.]

					l	1	1	11		1
January,					12,602	1,427	14,029	18,187	1,578	14,765
February,			•		12,507	1,455	18,962	18,222	1,562	14,784
March,		•			12,578	1,561	14;184	18,016	1,574	14,590
April, .		•			12,628	1,592	14,220	12,969	1,546	14,515
May, .		•			12,968	1,585	14,548	18,045	1,589	14,584
June, .		•			18,042	1,562	14,604	12,806	1,461	14,267
July, .					12,478	1,475	18,948	12,159	1,442	18,601
August,					13,206	1,529	14,784	12,189	1,882	13,521
September	, .				18,582	1,541	15,128	12,267	1,865	18,632
October,					14,039	1,666	15,706	12,595	1,420	14,015
November	, .		•		18,986	1,663	15,649	12,706	1,465	14,171
December,					13,817	1,689	15,506	12,527	1,468	18,990
							1	11		I

MIXED TEXTILES. [12 Establishments.]

					1	1	1	1	1
January,				475	158	628	526	219	745
February,				452	179	631	544	230	774
March,				497	196	698	546	280	776
April, .				488	182	670	585	225	760
May, .				539	198	782	511	218	724
June, .				512	197	709	463	214	677
July, .				540	204	744	488	220	658
August,				508	211	719	816	184	450
September	·, .			542	203	745	417	168	580
October,				570	218	788	482	154	586
November	, .			544	229	778	450	178	628
December		•		548	214	767	460	197	657
				l			l		1

54 STATISTICS OF MANUFACTURES. [Pub. Doc.

PERSONS EMPLOYED: BY INDUSTRIES—Continued.

AGGREGATES, BY MONTHS—1895, 1896—Continued.

MODELS, LASTS, AND PATTERNS. [49 Establishments]

							1895			19 96 .	
	М	NTE	3.			Males	Females	Totals	Males	Females	Totals
January,						469	1	470	487	1	438
February,						471	1	472	464	1	465
March,			. 1			465	1	466	478	1	479
April, .						458	1	454	479	1 1	480
May, .						446	1	447	457	-	457
June, .						441	1	442	436	8	439
July, .						419	1 1	420	425	8	428
August,						419	1 1	420	429	1	430
September,						407	1 1	408	418	1	414
October,					•	394	1	395	416	1	417
November,						882	1	888	431	2	438
December,	•	٠	•	•	•	390	1 1	391	429	4	433
MUSIC	ΑI	IN	ST	RU	ME	NTS AI	ND MAT	ERIALS	. [65 E	stablishn	nents.]
January,						2,116	102	2,218	2,031	99	2,130
ebruary,	•		•	•	٠	2,128	101	2,229	2,035	100	2,135
farch,	•	•			•	2,086	106	2,192	2,058	. 98	2,151
April, .		•	•	•		2,097	106	2,203	2,039	100	2,139
May, .						2,037	105	2,142	1,949	99	2,048

January,				2,116	102	2,218	2,031	99	2,130
February,				2,128	101	2,229	2,035	100	2,135
March,			.	2,086	106	2,192	2,058	98	2,151
April, .				2,097	106	2,203	2,039	100	2,139
May, .			.	2,037	105	2,142	1,949	99	2,048
June, .			.	2,023	105	2,128	1,502	60	1,562
July, .				2,039	102	2,141	1,895	51	1,446
August,			.	2,035	109	2,144	1,379	50	1,429
September	, .		.]	2,218	111	2,324	1,459	54	1,513
October,			.]	2,212	125	2,337	1,759	84	1,843
November	, .		.	2,269	127	2,396	1,851	88	1,939
December,				2,265	128	2,398	1,871	91	1,962
			- 1					. 1	

OILS	AND	ILLUMINATING	FLUIDS.	[9 Establishments.]

		- 1		1	- 11		i	
,		.	79	88	112	97	69	166
		٠ ا	78	33	m	96	69	165
		.	75	18	88	94	80	163
		.	74	18	87	88	9	92
,		.	71	13	84	75	9	84
,		.	72	18	85	76	. 9	85
			74	18	87	76	9	85
,		.	74	18	87	75	9	84
,		٠.	75	18	88	79	9	88
		.	82	13	96	89	9	96
			86	13	99	93	9	102
,			88	83	121	94	9	103
				78 78 75 76 74 71 72 74 74 74 75 76 76 76 76 76 76 76 76 76 76 76 76 76	78 38 38 75 18 75 18 74 18 71 18 72 18 74 18 74 18 74 18 74 18 75			

PERSONS EMPLOYED: BY INDUSTRIES - Continued. AGGREGATES. BY MONTHS-1895, 1896-Continued.

PAINTS, COLORS, AND CRUDE CHEMICALS. [23 Establishments.]

						1895			1896	
	М	ONTHE	3 .	_	Males	Females	Totals	Males	Females	Totals
January,					204	16	220	180	8	188
February,					210	22	232	179	8	187
March,				• 1	219	23	242	180	10	190
April, .				.	222	20	242	177	11	188
May, .				- 1	228	20	248	179	11	190
June, .				.	219	20	239	218	17	230
July, .				- 1	220	17	237	203	12	215
August,				.	196	11	207	188	18	201
Beptember.	, .			.	218	15	233	191	16	207
October,				.	224	15	239	202	16	218
November,	, .			.	217	16	233	205	17	222
December,				.	207	17	224	172	1 11	183

PAPER AND PAPER GOODS. [128 Establishments.]

								11 1		1
January,				. 1	6,322	5,405	11,727	6,381	5,281	11,662
February,				. !	6,249	5,458	11,702	6,347 .	5,178.	11,525
March,				. [6,274	5,489	11,768	6,301	5,127	11,428
April, .				- 1	6,330	5,450	11,780	6,333	5,183	11,466
May, .				. !	6,328	5,425	11,758	. 6,238	5,042	11,280
June, .		٠.		• '	6,312	5,359	11,671	. 6,191	5,014	11,206
July,				• 1	6,108	5,162	11,270	. 5,968	4,610	10,578
August,				. !	6,135	5,126	11,261	5,935	4,427	10,362
September					6,210	5,267	11,477	5,918	4,675	10,598
October,	•			. !	6,401	5,446	11,847	6,015	4,868	10,883
November	, .			.	6,478	5,485	11,918	6,109	5,025	11,184
December,					6,381	5,204	11,585	6,216	5,035	11,251
				1			l l	11 1		I

PERFUMES, TOILET ARTICLES, ETC. [4 Establishments.]

January,			.!	15	17	32	13	11	24
February,				15	15	80	18	11	24
March,			.	15	16	31	18	18	26
April, .			. 1	13	17	30	18	12	25
May, .			.	14	19	33	12	13	25
June, .			- 1	13	19	32	12	12	24
July, .			. 1	13	18	81	13	11	24
August,			.!	8	5	18	18	11	24
Beptember	, .			12	14	26	18	13	26
October,			• (18	15	28	18	14	27
November				13	14	27	18	14	. 27
December,			.	18	21	34	13	14	27

PERSONS EMPLOYED: BY INDUSTRIES—Continued. AGGREGATES, BY MONTHS—1895, 1896—Continued. PHOTOGRAPHS AND PHOTOGRAPHIC MATERIALS. [24 Establishments.]

					- 11	shments.	<u> </u>			
						1895			1896	
	HTKOM	ð. 			Males	Females	Totals	Males	Females	Totals
January, .					258	150	408	295	169	464
February, .					254	157	411	313	199	512
March, .					264	175	439	811	212	523
April,					265	180	445	827	214	541
Kay,					264	167	431	830	210	540
June,				•	285	178	468	841	201	549
July,				• .	279	178	457	800	200	500
August, .					284	207	491	228	189	417
eptember, .					292	236	528	268	161	420
October, .					298	247	545	298	202	500
November, .			•		330	252	582	838	211	544
December, .	•	•	•	•	818	244	562	844	251	595
	POI	181	HES	A	ND DR	essing.	[38 Es	stablishm	ents.]	
					158	101	259	155	115	270
January, .	•	•	•	•	162	101	270	154	125	279
February, .	•	•	•	•	164	147	311	161	154	318
March, .	•	•	•	•	169	165	334	1		
April,	•	•	•	•	170	167	337	158 155	171 172	826
May,	•	•	•	•	171	165	836	1	167	327
June,		•	•	•		1		150		317
July,		•	•	•	178	129 78	307 228	146	131	277
August, .	•	•	•	•	150		329	146	136	. 282
Beptember, .	•	•	•	•	164	165 168		146	198	844
October, .	•	•	•	•	171		884	145	188	333
November, .		•	•	•	178 173	129	802	146	146	295
December, .	•	•		•	1/8	117	290	142	121	263
PRINTIN	G, P	UB	LISI	HI	IG, ANI	BOOK	BINDIN	G. [47	Establish	ments
January, .	•		•		1,707	886	2,598	1,708	904	2,612
February, .	•	•	•	•	1,744	818	2,562	1,726	876	2,605
March, .	•	•	•	•	1,785	809	2,594	1,788	883	2,621
April,	•	•	•	•	1,754	802	2,556	1,733	852	2,588
May,	•	•	•	•	1,738	811	2,549	1,698	817	2,510
June,		•	•	•	1,697	826	2,528	1,739	838	2,577
July,	•	•		•	1,713	858	2,571	1,789	825	2,564
August, .	•		•	•	1,705	813	2,518	1,697	783	2,486
September, .					1,718	834	2,552	1,720	821	2,541
October, .					1,719	885	2,604	1,727	839	2,560
November, .					1,785	899	2,684	1,728	839	2,567
							_,,	_,		_,-,

3,711

8,382

PERSONS EMPLOYED: BY INDUSTRIES - Continued. AGGREGATES, BY MONTHS - 1895, 1896 - Continued. PRINT WORKS, DYE WORKS, AND BLEACHERIES. [47 Establishments.]

						. li	shments.]			
							1895			1896	
	M	ONTH	B			Males	Females	Totals	Males	Females	Totals
January,						5,083	1,243	6,276	5,165	1,258	6,423
February,						5,041	1,241	6,282	5,157	1,253	6,410
March,						5,110	1,289	6,379	5,129	1,226	6,355
April, .						5,124	1,273	6,397	5,004	1,223	6,227
May, .						5,144	1,266	6,410	4,820	1,198	6,013
June, .						5,254	1,240	6,494	4,591	1,188	5,774
July, .						5,828	1,216	6,544	4,867	1,197	6,064
August,						5,382	1,196	6,527	4,979	1,191	6,170
September	, .				•	5,817	1,212	6,529	5,023	1,198	6,221
October,		•		•	•	5,339	1,219	6,558	5,270	1,243	6,513
November,					•	5,247	1,262	6,509	5,280	1,307	6,587
December,				•		5,241	1,260	6,501	5,425	1,378	6,803
January,						2,287	LAD EQ.	2.287	8,009	Establish	8,009
February,	•	•	•	•		2,207	_	2,287	8,000		8,009 8,000
March.	:	•	•			2,337		2,337	2,988	-	2,988
April, .	:	•	:	:		2,484		2,484	2,948		2,943
May, .		•	•	÷		2,449		2,449	2,909		2,909
June, .				•		2,525		2,525	2,970		2,970
July, .						2,505	_	2,505	2,986		2,986
August,						2,468	-	2,468	2,824	_	2,824
Beptember						2,464	- '	2,464	2,807	_	2,807
October,	•					2,468	-	2,468	2,808	_	2,803
November	, .					2,587	-	2,587	2,609		2,609
December,	•	•	•	•	•	2,658	-	2,653	2,691	-	2,691
	RU	вв	ER	AN	D I	ELASTI	C G001	08. [41	Establis	hments.]	
January,						4,558	8,532	8,090	4,815	3,591	8,406
February,		•	•.		•	8,975	3,596	7,571	4,196	8,417	7,613
March,		•	·		•	4,258	3,616	7,874	4,265	8,394	7,659
April, .	•	•	•	•	•	4,865	8,872	7,737	4,072	2,683	6,705
May, .	•	•	•	•	•	4,849	3,404	8,253	4,785	8,387	8,172
June, .	•	•	•	•	•	4,958	3,607	8,565	4,824	3,423	8,247
July, .	•	•	•	•	•	5,032	3,676	8,708	4,792	8,380	8,172
August,	•	•	•	•	•	5,159	3,774	8,933	4,705	8,831	8,036
Beptem ber	, .	•	•	•	•	5,000	3,901	8,901	4,673	8,489	8,112
October,	•	•	•		•	4,296	3,932	8,228	4,615	8,676	8,291
November,						5,171	8,772	8,943	4,679	8,748	8,427

PERSONS EMPLOYED: BY INDUSTRIES—Continued. AGGREGATES, BY MONTHS—1895, 1896—Continued. SADDLERY AND HARNESS. [41 Establishments.]

						1895			1896	
	M)NTH	B.		Males	Females	Totals	Males	Females	Totals
January,					328	75	408	298	76	874
February,					322	78	400	277	77	354
March,					383	79	412	281	77	358
April, .				.	833	81	414	296	78	874
May, .					345	71	416	313	70	388
June, .					346	64	410	819	62	381
July, .					317	83	400	815	83	398
August,					308	72	380	315	76	391
September				.;	295	84	379	299	84	383
October,				. !	307	91	398	296	90	386
November,					293	99	392	268	98	366
December,				.	291	103	394	309	107	416

SCIENT	IF	C	INS	TR	UMI	ENTS AN	D APP	LIANCES.	[20 E	stablish	ments.]
January,						837	53	890	874	63	487
February,					• 1	342	51	393	871	63	434
March,					. '	346	54	400	388	59	447
April, .					.	361	58	414	386	65	451
May, .					.	378	58	431	405	62	467
June, .					.	371	54	425	388	60	448
July, .						368	54	422	881	61	442
August,						873	58	426	881	58	439
September	, .				• ;	377	56	433	884	58	442
October,						376	58	434	392	61	453
November,					. [370	52	422	387	59	446
December,	•	•	•	•		357	57	414	890	58	448

	 	8	HI	PBU	ILDING.	[51 E	stablishn	nents.]		
January,					364	-	364	376	-	376
February,				.	889	-	389	393	-	393
March,				- 1	474	-	474	462	-	462
April, .				.	527	-	527	578	-	578
May, .					539	-	589	609	-	609
June, .				.	555	-	565	557	-	557
July, .				.	412	-	412	459		459
August,					342	-	342	890	-	390
September				.	864	- 1	364	319		319
October,				.	384	-	384	338	-	333
November,				.	344	-	344	845	-	345
December,				.	348	-	848	820	-	320

PERSONS EMPLOYED: BY INDUSTRIES - Continued. AGGREGATES, BY MONTHS - 1895, 1896 - Continued.

SILK	AND	SILK	GOODS.	[9 Establishments.]	ı
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						1895			1896	
	M	ONTRE	S.		Males	Females	Totals	Males	Females	Totals
January,	•				590	1,158	1,748	626	1,233	1,859
February,	•			.	622	1,190	1,812	599	1,204	1,803
March,				.	640	1,227	1,867	603	1,181	1,784
April, .				.	625	1,208	1,833	600	1,162	1,762
May,				- 1	630	1,191	1,821	577	1,124	1,701
June, .				.	644	1,188	1,832	575	1,076	1,651
July, .				٠.	617	1,075	1,692	479	793	1,272
August,				. [639	1,236	1,875	494	844	1,838
September				.	643	1,250	1,893	516	917	1,433
October,					652	1,293	1,945	586	996	1,532
November					641	1,285	1,926	550	1,099	1,649
December,				.	652	1,272	1,924	539	1,116	1,655

SPORTING AND ATHLETIC GOODS. [9 Establishments.]

				l l		11	- 1	i i	
January,				501	52	553	517	50	567
February,				478	54	532	444	56	500
March,				470	57	527	295	63	358
April, .				355	58	418	473	59	532
May, .				877	59	436	486	41	527
June, .				413	52	465	539	33	572
July, .				546	32	578	541	26	567
August,				537	26	563	579	29	608
September	,.			537	27	564	593	81	624
October,				621	36	657	575	46	621
November	, .			632	42	674	584	47	631
December,				610	48	658	624	54	678
				1		11		1	

STONE. [199 Establishments.]

January,					.	3,620	-	8,620	3,909	-	3,909
February,		•				3,664	-	3,664	3,903	- 1	8,908
March,						4,295	-	4,295	4,350	-	4,850
April, .			•	. •	.	4,921	-	4,921	5,402	-	5,402
May, .					.	5,524	-	5,524	5,729	-	5,729
June, .					.	5,786	-	5,786	5,776	-	5,776
July, .						5,738	-	5,738	5,581	-	5,581
August,					.	5,811	-	5,811	5,700	-	5,700
September.	, .					5,714	-	5,714	5,674	-	5,674
October,					.	5,671	-	5,671	5,728	-	5,728
November,					.	5,228	-	5,228	5,857	-	5,357
December,					.	4,615	-	4,615	4,470	-	4,470

PERSONS EMPLOYED: BY INDUSTRIES—Continued.

AGGREGATES, BY MONTHS—1895, 1896—Continued.

STRAW AND PALM LEAF GOODS. [21 Establishments.]

							1895			1896	
	M	DNTH	B.			Males	Females	Totals	Males	Females	Totals
January,			•	•		1,818	2,562	3,880	1,814	2,430	3,744
February,					.	1,879	2,615	3,994	1,375	2,605	3,980
March,						1,443	2,568	4,011	1,891	2,558	8,949
Ap r ll, .						1,874	2,458	3,832	1,357	2,491	3,848
May, .					- 1	1,232	2,209	8,441	1,145	1,987	8,132
June, .					.	706	1,044	1,750	570	854	1,424
July, .					.	448	429	877	894	891	785
August,					.	468	486	949	435	425	860
September	, .			•	.	678	691	1,364	625	550	1,175
October,				•	.	792	1,007	1,799	751	891	1,642
November,						921	1,326	2,247	855	1,225	2,080
December,					٠.	1,146	2,029	8,175	1,118	1,922	3,085

TALLOW, CANDLES, SOAP, AND GREASE. [60 Establishments.]

				1		1	1	1	1
January,				529	60	589	527	80	616
February,				527	66	598	527	87	614
March,				585	71	606	527	91	618
April, .			•	588	75	618	588	91	624
May, .			•	540	81	621	529	90	619
June, .				545	89	684	582	94	626
July, .				540	101	641	540	96	686
August,				541	91	632	580	87	617
September	, .			550	97	647	521	85	606
October,				540	97	687	512	63	575
November,				586	91	627	581	80	611
December,				527	86	613	519	78	597

TOBACCO, SNUFF, AND CIGARS. [48 Establishments.]

	$\overline{}$	 	 						
January,				1,042	408	1,450	1,081	892	1,423
February,				1,122	481	1,553	1,087	402	1,489
March,			.	1,108	442	1,550	1,079	403	1,482
April, .			.	1,138	461	1,599	1,086	409	1,495
May, .			.	1,169	479	1,648	1,175	449	1,624
June, .			٠.	1,179	483	1,662	1,285	485	1,720
July, .			٠.	1,186	484	1,670	1,213	471	1,684
August,			.	1,194	498	1,687	1,169	451	1,620
September	, .		.	1,200	485	1,685	1,122	420	1,542
October,			.	1,209	467	1,676	1,092	413	1,505
November				1,158	450	1,608	1,089	400	1,489
December,				1,101	402	1,508	1,068	877	1,430
			 			l l			

PERSONS EMPLOYED: BY INDUSTRIES—Continued. AGGREGATES, BY MONTHS—1895, 1896—Continued. TOYS AND GAMES (CHILDREN'S). [11 Establishments.]

					1		1895		1896			
	M	OFTE	s. 			Males	Females	Totals	Males	Females	Totals	
January,						217	55	272	235	41	276	
February,					.	247	54	801	260	55	315	
March,					.	261	80	821	280	67	847	
April, .					.	281	79	360	819	89	408	
May, .						302	80	891	881	96	427	
June, .						813	84	397	854	101	455	
July, .					.	289	81	870	806	88	894	
August,					.	827	84	411	842	96	438	
September,	, .				-	855	106	461	358	102	456	
October,					.	400	117	517	879	185	514	
November,				•	.	404	129	538	886	141	527	
December,					.	814	97	411	857	127	484	

TRUNKS AND VALISES. [7 Establishments.]

					1		1		l .
January,				71	10	81	58	1	59
February,				79	9	88	67	7	74
March,				90	9	99	77	6	83
April, .				79	9	88	71	7	78
May, .				78	9	87	68	8	76
June, .		•		79	11	90	70	8	78
July, .				77	10	87	68	7	70
August,				83	10	93	68	7	75
September	, .			81	10	91	65	8	73
October,				84	9	98	63	8	71
November	, .			81	9	90	58	8	66
December				78	7	80	49	1	50
					l	1	1	1	

WHIPS, LASHES, AND STOCKS. [15 Establishments.]

			- 1			- 11			
January,			.	283	114	847	256	111	867
February,			٠ ١	252	115	367	260	118	373
March,			.	257	111	368	263	114	877
April, .			. '	262	110	372	258	111	864
May, .			• i	261	105	866	251	108	859
June, .			• '	254	108	362	226	96	821
July, .			٠.'	261	116	877	237	104	841
August,			. !	272	116	388	213	85	298
September	,.			272	125	897	220	86	306
October,			٠.;	278	126	399	220	92	812
November	, .		. 1	278	123	396	218	98	311
December.			. !	242	105	347	288	107	840

PERSONS EMPLOYED: BY INDUSTRIES—Continued. AGGREGATES, BY MONTHS—1895, 1896—Continued.

WOODEN GOODS. [153 Establishments.]

						1895			1896	
	M	ONTH	s. 		Males	Females	Totals	Males	Females	Totals
January,					2,463	61	2,524	2,567	54	2,621
February,				.	2,427	57	2,484	2,567	57	2,614
March,				- 1	2,555	57	2,612	2,503	60	2,563
April, .			•	- 1	2,574	60	2,634	2,536	62	2,598
May, .				.	2,719	61	2,780	2,572	66	2,688
June, .				.	2,776	61	2,837	2,607	65	2,672
July, .				٠,	2,701	55	2,756	2,597	68	2,660
August,					2,772	48	2,815	2,609	56	2,665
September	, .			.	2,832	49	2,881	2,674	49	2,723
October,					2,862	59	2,921	2,686	52	2,688
November,				.	2,842	68	2,905	2,490	54	2,544
December,				.	2,789	62	2,851	2,850	63	2,413

WOOLLEN GOODS. [122 Establishments.].

January,				9,796	5,444	15,240	9,393	5,312	14,705
February,			.	9,917	5,586	15,503	9,678	5,420	15,098
March,				10,280	5,649	15,929	9,867	5,586	15,453
April, .			.	10,435	5,719	16,154	9,485	5,396	14,881
May, .			.	10,569	5,906	16,475	9,155	5,258	14,418
June, .				10,359	5,758	16,117	8,469	4,820	13,289
July, .				10,846	5,816	16,162	7,887	4,860	12,197
August,			. !	10,652	5,898	16,550	7,325	3,977	11,302
September,				10,450	5,788	16,238	7,724	4,099	11,823
October,				10,664	5,941	16,605	8,901	4,626	13,527
November,				10,555	5,886	16,441	8,987	4,760	13,747
December,				10,400	5,793	16,198	8,918	4,770	13,683

WORSTED GOODS [27 Establishments.]

				ī		!!	1		T
January,				6,127	5,691	11,818	6,853	6,163	13,016
February,			.	5,924	5,617	11,541	6,845	6,175	18,020
March,				6,159	5,709	11,868	6,272	5,643	11,915
April, .			.	6,398	5,917	12,315	6,402	5,624	12,026
May, .]	6,589	5,970	12,509	6,223	5,534	11,757
June, .			.	6,536	5,924	12,460	5,252	4,838	10,090
July,			.]	6,511	5,922	12,438	5,044	4,657	9,701
August,			.	6,623	5,891	12,514	5,819	5,844	11,163
September			.	6,617	5,835	12,452	5,693	5,160	10,853
October.			.	6,718	5,941	12,659	5,091	4,507	9,598
November				6,794	6,115	12,909	5,923	5,230	11,153
December,				6,272	5,771	12,043	5,874	5,643	11,517
			- 1		-	' '		-	

PERSONS EMPLOYED: BY INDUSTRIES — Concluded. AGGREGATES, BY MONTHS — 1895, 1896 — Concluded.

ALL INDUSTRIES. [4,609 Establishments.]

							1895			1896	
	M	ONTH	5 .	_		Males	Females	Totals	Males	Females	Totals
January,						195,170	104,282	299,452	202,454	106,048	808,497
February,						195,196	104,909	300,105	204,140	106,973	311,113
March,						198,678	106,391	805,069	204,501	106,642	811,148
April, .					.	200,037	106,226	306,263	204,720	104,948	309,668
May, .					.	204,100	106,502	310,602	205,899	104,624	310,023
June, .						205,600	104,914	810,514	200,441	100,708	301,144
July, .						202,415	101,120	808,535	192,237	93,681	285,868
August,						204,691	101,863	306,554	187,060	89,886	276,446
September	, .				.	206,678	104,155	310,833	188,436	92,861	281,297
October,		٠.			.	206,471	105,791	312,262	198,876	98,891	292,767
November,						206,339	106,715	313,054	194,893	100,627	295,520
December,					.	204,503	106,152	310,655	195,806	102,875	298,681

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WAGES PAID: BY INDUSTRIES.



WAGES PAID: BY INDUSTRIES.

1895, 1896,

[In this presentation, the figures given under "Total Amount Paid in Wages During the Year" represent the returns made by the same establishments, in each industry, for the years 1895 and 1896, the whole number of establishments considered in "All Industries" being 4,609. Comparison is made, as regards the total amount paid in wages, between these two years. The relative increase or decrease in 1896 as compared with 1895 is given with its equivalent percentage. It must be borne in mind that these figures represent the sums paid to wage earners only and do not include amounts paid to officers, clerks, or other salaried persons.]

Industries.	Number of Estab- lishments	TOTAL A	GES DURING	INCREASE OR DECREASE 189	BE (), IN
	Con- sidered	1895	1896	Amounts	Percent-
Agricultural implements,	8	\$279,196	\$278,914	-\$282	-0.10
Arms and ammunition,	12	761,695	779,521	+17,826	+2.84
Artisans' tools,	69	966,304	1,082,199	+65,895	+6.82
Awnings, sails, tents, etc.,	82	94,012	82,872	-11,640	-12.3
Bicycles, tricycles, etc.,	10	1,178,004		+54,594	+4.6
Boots and shoes,	605	20,838,632	20,834,381	-4,301	-0.0
Boxes (paper and wooden),	158	1,491,281	1,423,511	-67,770	-4.5
Brick, tiles, and sewer pipe,	56	563,922	588,764	+24,842	+4.4
Brooms, brushes, and mops,	19	248,720	249,660	+940	+0.80
Burial cases, caskets, coffins, etc., .	7	124,394	124,143	-251	-0.2
Buttons and dress trimmings,	15	270,685	257,489	-18,196	-4.88
Carpetings,	12	1,709,689	1,448,472	-266,217	-15.5
Carriages and wagons,	143	1,261,459	1,140,027	-121,432	9.6
Cement, kaolin, lime, and plaster, .	10	55,588	56,062	+524	+0.94
Chemical preparations (compounded),	12	194,204	188,357	-5,847	—8. 03
Clocks, watches, and jewelry,	99	1,799,807	1,606,867	192,940	-10.72
Clothing,	130	2,863,800	2,550,241	813,059	10.93
Cooking, lighting, and heating ap-					
paratus,	85	945,129	966,598	+21,469	+2.2
Cordage and twine,	29	798,013	855,974	+62,961	+7.9
Corks, bungs, and taps,	8	18,229	15,700	+2,471	+18.6
Cotton goods,	169	26,284,125	25,865,194	-368,931	-1.4
Cotton, woollen, and other textiles, .	2	619,096	645,086	+25,990	+4.2
Crayons, pencils, crucibles, etc., .	4	12,334	12,501	+167	+1.8
Drugs and medicines,	27	272,687	260,542	-12,145	-4.4
Dyestuffs,	. 8	75,884	58,986	-16,398	-21.7
Earthen, plaster, and stone ware, .	7	118,634	99,844	18,790	-12.1
Riectrical apparatus and appliances, .	23	1,541,440	1,381,200	-160,240	10.40
Electroplating,	12	62,011	71,229	+9,218	+14.8
Emery and sand paper and cloth, etc.,	10	152,620	176,925	+24,305	+15.9
Fancy articles, etc.,	11	86,242	85,548	-694	-0.8
Fertilizers,	8	80,082	81,187	+1,155	+3.84
Fine arts and taxidermy,	8	5,780	8,480	+2,700	+46.7
Fireworks and matches,	4	32,848	85,774	+2,926	+8.91
Flax, hemp, jute, and linen goods, .	10	684,796	639,581	-45,215	
Food preparations,	319	3,042,852	8,105,154	+62,302	+2.00
Furniture,	119	1,713,137	1,578,746	-134,391	-7.84
Glass,	14	177,338			

WAGES PAID: BY INDUSTRIES—Continued.

WAGES PAID: BY INDUSTRIES—1895, 1896—Concluded.

Industries.	Number of Estab- lishments	TOTAL PAID IN WA	AMOUNT AGES DURING YEAR	INCREAS OR DECREA 184	SE (). II
•	Con- sidered	1895	1896	Amounts	Percent-
Glue, isinglass, and starch,	23	\$150,174	\$159,107	+\$8,933	+5.9
Hair work (animal and human), .	7	57,188		-8,319	-14.5
Hose: rubber, linen, etc.,	4	287,174	299,589	+62,415	+26.8
Hosiery and knit goods,	42	1,863,085	1,718,096	-144,989	-7.7
Ink, mucilage, and paste,	7	82,869			-0.4
Ivory, bone, shell, and horn goods,	ĺ	1			
etc.,	18	324,386	274,352	50,034	-15.4
Leather,	148	8,448,208	2,984,515	463,688	-13.4
Liquors and beverages (not spirit-			i l		
uous),	28	103,450	92,570	10,880	-10.5
Liquors: malt, distilled, and fer-					
mented,	57	1,118,644	1,169,720	+51,076	+4.5
Lumber,	32	844,754	336,848	7,906	-2.25
Machines and machinery,	871	9,072,876	9,731,509	+658,633	+7.2
Metals and metallic goods,	382	7,479,648	7,218,118	-261,525	-3.5
Mixed textiles,	12	259,814	230,318	-29,501	-11.3
Models, lasts, and patterns,	49	809,146	314,857	+5,211	+1.6
Musical instruments and materials, .	65	1,400,562	1,143,327	-257,235	-18.3
Oils and illuminating fluids,	9	50,684	56,903	+6,219	+12.2
Paints, colors, and crude chemicals, .	23	128,361	115,784	-12,577	-9.8
Paper and paper goods,	128	4,723,678	4,476,285	-247,393	-6.2
Perfumes, toilet articles, etc.,	4	9,426		1	
Photographs and photographic materials.					
	24	217,489		+3,072	•
Polishes and dressing,	33	160,402		II	
Printing, publishing, and bookhinding, Print works, dye works, and bleach-		1,855,851			•
eries,	47	2,788,389			-3.4
ment,	16	1,878,904	1,669,741	+295,837	+21.5
Rubber and elastic goods,	41	8,626,898	8,396,595	230,303	-6.3
Saddlery and harness,	41	216,194	208,961	-12,233	5.8
Scientific instruments and appli-				i	
ances,	20	198,885		11	
Shipbuilding,	51	264,918	1 .	14	
Silk and silk goods,	9	656,478		,,	
Sporting and athletic goods,	9	242,881		+2,240	
Stone,	199	2,598,983		+44,249	+1.7
Straw and palm leaf goods,	21	1,136,826			•
Tallow, candles, soap, and grease, .	60	809,155			
Tobacco, snuff, and cigars,	48	1,015,278		39,218	
Toys and games (children's),	11	163,579	1 ' 1	+3,918	+2.3
Trunks and valises,	7	42,025		1 .	
Whips, lashes, and stocks,	15	159,891	187,115	-22,776	-14.2
Wooden goods,	158	1,468,041	1,408,285	59,806	-4.0
Woollen goods,	122	5,987,401	4,963,615		-17.10
Worsted goods,	27	4,490,457	3,848,327	-642,130	-14.30
ALL INDUSTRIES.	4,609	\$180,845,551	\$126,913,872	-83,932,179	-3.0

AVERAGE YEARLY EARNINGS: BY INDUSTRIES.

1895, 1896.

[The average yearly earnings, shown in this presentation, have been obtained by dividing the total amount paid in wages during the years 1896 and 1896 (pages 67 and 68) by the average number of persons employed during the same years (pages 27 to 30 inclusive). The relative increase or decrease in average yearly earnings in 1896 as compared with 1895 is given with its equivalent percentage. It must be borne in mind that these figures represent the sums paid to wage earners only and do not include amounts paid to officers, clerks, or other salaried persons.]

Agricultural implements,	Industries.	Number of Estab- lishments	Average Yearly Earnings		Increase (+), or Decrease (), in 1896	
Arms and ammunition,		Con-	1895	1896	Amounts	
Artisans' tools,	Agricultural implements,	8	\$514.17	\$491.05	-\$23.12	-4.50
Awnings, sails, tents, etc.,	Arms and ammunition,	12	477.25	506.88	+81.58	+6.62
Bicycles, tricycles, etc.,	Artisans' tools,	69	549.97	560.87	+10.40	+1.89
Boots and shoes,	Awnings, sails, tents, etc.,	82	588.98	581.48	62.50	-8.99
Boxes (paper and wooden),	Bicycles, tricycles, etc.,	10	578.80	618.15	+39.85	+6.89
Brick, tiles, and sewer pipe,	Boots and shoes,	605	482.60	492.97	+10.37	+2.15
Brooms, brushes, and mops,	Boxes (paper and wooden),	158	890.90	884.84	-6.06	-1.55
Burial cases, caskets, coffine, etc.,	Brick, tiles, and sewer pipe,	56	446.49	444.85	-2.14	-0.48
Buttons and dress trimmings,	Brooms, brushes, and mops,	19	855.81	859.74	+4.48	+1.25
Buttons and dress trimmings,	Burial cases, caskets, coffins, etc	7	618.88	626.98	+8.10	+1.81
Carriages and wagons,		15	852.45	332.24	-20.21	-5.78
Cement, kaolin, lime, and plaster,	Carpetings,	12	870.88	841.09	-20.20	-7.91
Chemical preparations (compounded), . 12 589.67 583.94 +4.27 +0.76 Clocks, watches, and jeweiry,	Carriages and wagons,	143	580.51	578.11	-2.40	-0.41
Clocks, watches, and jeweiry,	Cement, kaolin, lime, and plaster.	10	462.82	471.11	+8.29	+1.79
Clocks, watches, and jeweiry,	Chemical preparations (compounded)	12	559.67	568.94	+4.27	+0.76
Clothing,		99	505.28	480.45	-15.83	-8.18
Cordage and twine,		180	395.98	867.68	-28.80	-7.15
Cordage and twine,	Cooking, lighting, and heating apparatus.	85	652.26	628.48	-23.78	-3.65
Cotton goods,		29	883.62	846.88	+13.21	+8.96
Cotton goods,	Corks, bungs, and taps,	8	367.47	865.12	-2.86	-0.64
Cotton, woollen, and other textiles,	Cetten made	169	828.77	831.86	+2.59	+0.79
Crayons, pencils, crucibles, etc., 4 300.88 347.25 +46.42 +15.48 Drugs and medicines, . . 27 417.59 418.56 -4.08 -0.97 Dyestuffs, . . . 8 495.95 468.14 -27.81 -5.61 Earthen, plaster, and stone ware, . . 7 494.06 477.72 -16.34 -3.81 Electrical apparatus and appliances, .		2	376.58	365.90	-10.68	-2.84
Drugs and medicines,		4	300.88	847.25	+46.42	+15.48
Earthen, plaster, and stone ware, . 7 494.06 477.72 —16.34 —3.81 Electrical apparatus and appliances, . 23 525.19 510.61 —14.58 —2.78 Electroplating, . . . 12 521.10 556.48 +85.38 +6.79 Emery and sand paper and cloth, etc., . <		27	417.59	418.56	-4.08	-0.97
Earthen, plaster, and stone ware, . 7 494.06 477.72 —16.34 —3.81 Electrical apparatus and appliances, . 23 525.19 510.61 —14.58 —2.78 Electroplating, . . . 12 521.10 556.48 +85.38 +6.79 Emery and sand paper and cloth, etc., . <	Dyestuffs,	8	495.95	468.14	-27.81	-5.61
Electrical apparatus and appliances, 23 525.19 510.61 —14.58 —2.78 Electroplating, .		7	494.06	477.72	-16.34	-3.81
Electroplating,			525.19	510.61		-2.78
Emery and sand paper and cloth, etc., 10 548.99 539.41 -9.58 -1.75 Fancy articles, etc., . <td>THE CAN AND ADD</td> <td>12</td> <td>521.10</td> <td>556.48</td> <td>+85.88</td> <td>+6.79</td>	THE CAN AND ADD	12	521.10	556.48	+85.88	+6.79
Fancy articles, etc.,						
Fine arts and taxidermy,	Poner articles etc	1 1	1		-	+1.81
Fine arts and taxidermy,	T					
Pleasante and matching	Pine arts and teridenses			******		-2.19
	Pleamenha and makeles	1	1			

WAGES PAID: BY INDUSTRIES—Continued.

AVERAGE YEARLY EARNINGS: BY INDUSTRIES—1895, 1896
— Concluded.

Industries.	Number of Estab- lishments Con- sidered	Average Yearly Earnings		INCREASE (+), OR DECREASE (-), IN 1896	
		1895	1896	Amounts	Percent-
Flax, hemp, jute, and linen goods,	10	\$302.61	\$282.25	-\$20.36	_6.78
Food preparations,	319	448.58	452.71	+4.18	+0.93
Furniture,	119	489.19	479.42	-9.77	-2.00
Glass,	14	512.54	472.22	-40.32	-7.87
Glue, isinglass, and starch,	23	481.58	899.77	-31.76	-7.36
Hair work (animal and human),	7	883.78	836.99	-46.79	-12.19
Hose: rubber, linen, etc.,	4	444.98	402.13	-42.85	9.63
Hosiery and knit goods,	42	332.40	804.80	28.1 0	-8.45
Iuk, mucilage, and paste,	7	513.58	554.42	+40.84	+7.95
Ivory, bone, shell, and horn goods, etc., .	18	400.97	392.49	-8.48	-2.11
Leather,	143	481.06	470.22	-10.84	-2.25
Liquors and beverages (not spirituous), .	28	538.80	522.99	-15.81	-2.93
Liquors: malt, distilled, and fermented, .	57	693.52	695.85	+2.33	+0.84
Lumber,	32	447.15	460.80	+13.65	+3.05
Machines and machinery,	371	535.81	538.19	+2.38	+0.44
Metals and metallic goods,	882	509.08	506.82	-2.21	-0.43
Mixed textiles,	12	363.38	344.78	-18.60	-5.12
Models, lasts, and patterns,	49	712.32	706.42	-5.90	-0.83
Musical instruments and materials, .	65	625.25	613.37	-11.88	-1.90
Oils and illuminating fluids.	9	527.96	517.80	-10.66	-2.02
Paints, colors, and crude chemicals,	23	543.90	573.19	+29.29	+6.89
Paper and paper goods.	123	405.57	402.83	-2.74	0.68
Perfumes, toilet articles, etc.,	4	325.03	341.32	+16.29	+5.01
Photographs and photographic materials,	24	452.16	432.47	-19.69	—4.35
Polishes and dressing.	33	525.91	490.10	—85.81	-6.81
Printing, publishing, and bookbinding, .	47	526.76	683.41	+6.65	+1.26
Print works, dye works, and bleacheries,	47	424.15	419.54	-4.61	-1.09
Railroad construction and equipment,	16	559.41	580.58	+21.17	+3.78
Rubber and elastic goods,	41	482.19	425.11	—7.08	-1.64
Saddlery and harness,	41	540.49	532.54	—7.95	-1.47
Scientific instruments and appliances,	20	475.74	500.99	+25.25	+6.81
Shinbuilding	51	620.41	624.63		+0.68
Bills and allk mode	9	855.04	359.08	+4.22	+1.14
Sporting and athletic goods		440.00		+4.04	-1.57
Stone	199	514.14	433.08	-6.92	l
Strow and noise look made	21	485.23	524.24	+10.10	+1.96
Tellow sendles seen and seese		497.08	463.54	+28.81	+6.50
Toheses and alarm	60		498.08	-3.95	-0.79
Toys and games (children's),	48	630.22	631.76	+1.54	+0.94
Trunks and rollers	11	414.12	897.84	-16.28	-3.93
• • • •	7	477.56	484.69	+7.18	+1.49
Whips, lashes, and stocks,	15	426.88	408.28	23.10	-5.42
Wooden goods,	158	582.48	587.49	+5.01	+0.94
Woodlen goods,	192	870.99	363.06	-7.91	-2.13
Worsted goods,	27	865.17	840.02	—25.15	6.89
ALL INDUSTRIES.	4,609	\$425.39	\$425.16	-80.23	-0.05

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES.

1895, 1896,

[In this presentation is shown, for 1895 and 1896, a classification of the weekly wage, ranging from under \$5 per week to \$20 and over, and the number of males and females receiving such wage. The returns were made by manufacturers to cover the week during which the largest number of persons was employed.]

AGRICULTURAL IMPLEMENTS. [8 Establishments.]

CLASSIFICATION O	p W	EERL			1895		1896			
WAGE.				Males	Females	Totals	Males	Females	Totals	
Under \$5,		•		18	-	18	24	_	24	
\$5 but under \$6,			.	16	-	16	17	· -	17	
\$6 but under \$7,			.	19	-	19	` 83	-	88	
\$7 but under \$8,			٠.	67	-	67	95	-	95	
\$8 but under \$9,			.	59	-	59	79	-	79	
\$9 but under \$10,			٠. ا	84	-	84	70	-	70	
\$10 but under \$12,			.]	171	-	171	124	-	124	
\$12 but under \$15,			.	111	-	111	188	-	188	
\$15 but under \$20,			.	42	-	42	58	-	58	
20 and over, .			.	16	-	16	11	-	11	
TOTALS, .				602	-	602	644	-	644	

ARMS AND AMMUNITION. [12 Establishments.]

		!!!	· · · · · · · · · · · · · · · · · · ·	. 1		ł	
Under \$5,		238	12	250	198	2	195
\$5 but under \$6,		64	-	64	101	-	101
\$6 but under \$7,		149	28	177	181	6	187
\$7 but under \$8,		166	14	180	171	20	191
\$8 but under \$9,		110	4	114	125	11	186
\$9 but under \$10,		135	56	191	178	36	214
\$10 but under \$12,		179	64	243	212	77	289
\$12 but under \$15,		281	19	800	262	20	282
\$15 but under \$20,		182	-	182	218	-	218
\$20 and over, .		188	-	188	188	-	183
TOTALS, .		1,637	197	1,884	1,724	172	1,896
		l I.					

WAGES PAID: BY INDUSTRIES—Continued. CLASSIFIED WEEKLY WAGES: BY INDUSTRIES—1895, 1896 — Continued.

ARTISANS' TOOLS. [69 Establishments.]

CLASSIFICATION O	r W	REEL			1895		1896			
Wage.			•	Males	Females	Totals	Males	Females	Totals	
Under \$5,				187	11	148	82	15	97	
\$5 but under \$6,				79	14	93	52	4	56	
\$6 but under \$7,		•		104	10	114	132	20	152	
\$7 but under \$8,		. •		148	11	159	142	11	153	
\$8 but under \$9,				141	6	147	166	4	169	
\$9 but under \$10,				199	8	207	280	4	234	
\$10 but under \$12,				302	2	304	814	1 1	815	
\$12 but under \$15,			.	411	1	412	373	1	374	
\$15 but under \$20,			.	279	-	279	842	-	849	
\$20 and over, .			.]	119	-	119	128	-	128	
TOTALS, .				1,919	68	1,982	1,960	60	2,020	

AWNINGS, SAILS, TENTS, ETC. [32 Establishments.]

	 		i	·				· · · · · · · · · · · · · · · · · · ·
Under \$5,			-	_	-	1	7	8
\$5 but under \$6,	•		6	8	9	5	6	11
\$6 but under \$7,			5	10	15	5	13	18
\$7 but under \$8,			7	15	22	8	7	10
\$8 but under \$9,				18	18	-	20	20
\$9 but under \$10,			6	8	9	4	7	11
\$10 but under \$12,			15	-	15	11	_	11
\$12 but under \$15,			26	1	27	26	1	27
\$15 but under \$20.			182	-	182	105	-	105
\$20 and over,			14	· •	14	14	-	14
Totals, .		•	211	50	261	174	61	285
						1		L

BICYCLES, TRICYCLES, ETC. [10 Establishments.]

•	•		105 48 83	6 2	111 50	181 52	3 2	184 54
•	:	1		- 1	50	52	2	54
	•	.	88					
			- OU	22	106	102	7	109
	•	.	115	87	152	181	8	139
			107	29	186	152	31	188
			309	29	888	885	6	391
			872	10	882	465	6	471
			646	11	657	841	10	851
		.	472	7	479	586	7	598
			97	-	97	187	-	187
			2,854	158	2,507	2,982	80	3,062
	• • •			107 309 872 646 472 97	107 29 309 29 872 10 646 11 472 7 97 -	107 29 186 309 29 838 372 10 882 646 11 657 472 7 479 97 – 97	107 29 186 182 309 29 888 885 872 10 882 465 646 11 657 841 472 7 479 586 97 - 97 187	

WAGES PAID: BY INDUSTRIES—Continued. CLASSIFIED WEEKLY WAGES: BY INDUSTRIES—1895, 1896 — Continued.

BOOTS AND SHOES. [605 Establishments.]

CLASSIFICATION O	.	Were	LŦ		1895		1896			
WAGE.				Males	Females	Totals	Males	Females	Totals	
Under \$5,			•	1,905	2,785	4,640	1,879	2,926	4,805	
\$5 but under \$6,				1,404	1,901	8,306	1,808	1,687	2,995	
\$6 but under \$7,				1,815	2,061	8,876	1,861	1,967	3,828	
\$7 but under \$8,				2,222	1,842	4,064	2,187	1,872	4,009	
\$6 but under \$9,		•		2,837	1,615	8,952	2,441	1,713	4,154	
\$9 but under \$10,				8,412	1,729	5,141	8,808	1,806	5,111	
\$10 but under \$12,				5,385	2,049	7,884	5,271	2,264	7,585	
\$12 but under \$15,				7,968	1,505	9,498	7,888	1,457	9,296	
\$15 but under \$20,				7,024	518	7,587	6,628	615	7,288	
\$30 and over, .		•	•	2,432	82	2,464	2,885	56	2,441	
TOTALS, .				85,874	15,982	51,856	85,046	16,365	51,411	

BOXES (PAPER AND WOODEN). [158 Establishments.]

				1		- 1	
•	•	189	587	796	124	552	676
		82	825	407	91	888	424
		168	849	512	172	866	588
		251	291	542	242	269	511
		215	185	400	228	124	847
		460	188	598	452	134	576
		428	102	580	428	96	524
		494	49	478	402	50	452
		215	6	221	908	8	211
		28	1	29	82	1	88
		2,405	2,083	4,488	2,360	1,928	4,292
•	• • •		163 251 215 460 428 424 215	168 349 251 291 215 185 400 188 428 102 424 49 215 6 28 1	163 849 512 251 291 542 215 185 400 400 188 598 428 102 580 424 49 473 215 6 221 28 1 29	163 349 512 172 251 291 542 242 215 185 400 223 400 128 598 452 428 102 580 428 424 49 473 403 215 6 221 208 28 1 29 33	163 349 512 172 366 251 291 542 242 269 215 185 400 228 124 460 188 596 452 124 428 102 580 428 96 424 49 473 402 50 215 6 221 303 8 28 1 29 32 1

BRICK, TILES, AND SEWER PIPE. [56 Establishments.]

	1				l	· · · · · · · · · · · · · · · · · · ·	
		98	1	94	106	1	109
		40	2	42	97	2	99
		57	-	57	109	2	111
		179	1	180	172	-	172
		270	- 1	270	821	-	821
		709	-	709	720	-	720
	.	481	1	482	881	-	831
	٠.	202	-	202	229	-	229
	٠.	89	-	89	98	-	93
		17	- 1	17	27	-	27
	.	2,087	5	2,092	2,207	5	2,212
•			40 57 179 270 709 431 202 89				

74 STATISTICS OF MANUFACTURES. [Pub. Doc.

WAGES PAID: BY INDUSTRIES - Continued.

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES — 1895, 1896 — Continued.

BROOMS, BRUSHES, AND MOPS. [19 Establishments.]

CLASSIFICATION	N 01	· w	KRKL	Y		1895		1896			
Wad				_	Males	Females	Totals	Males	Females	Total	
Under \$5, .	•				66	178	238	78	198	27(
\$5 but under \$	6,				29	79	108	52	70	12	
\$6 but under	7,				26	87	63	29	26	54	
\$7 but under	8,				80	24	54	29	21	50	
\$8 but under	9,				12	8	20	18	8	2	
\$9 but under \$1	10,				49	6	55	85	6	4	
\$10 but under \$1	12,				47	6	53	88	6	4	
\$12 but under \$1	15,				65	1	66	69	1 1	70	
\$15 but under \$2	ю,				72	- 1	72	68	-	61	
\$20 and over,	•				27	-	27	29	-	21	
TOTALS,			•		422	834	756	445	881	770	

BURIAL CASES, CASKETS, COFFINS, ETC. [7 Establishments.]

Under \$5,		4	1	5	4	1	5
\$5 but under \$6,		4	-	4	5	_	5
\$6 but under \$7,		8	2	10	6	3	9
\$7 but under \$8,		9	8	12	9	-	9
\$8 but under \$9,		10	5	15	7	4	11
\$9 but under \$10,		8	5	18	11	4	15
\$10 but under \$12,		27	8	80	18	5	23
\$12 but under \$15,		86	1	87	54	8	57
\$15 but under \$20,		76	-	76	59	-	59
\$20 and over, .		7	-	7	8	-	8
TOTALS, .		189	20	209	181	20	201

BUTTONS AND DRESS TRIMMINGS. [15 Establishments.]

			- 1		1 1	1	
Under \$5,		88	216	254	44	185	229
\$5 but under \$6,		21	194	215	89	211	250
\$6 but under \$7,		80	70	100	43	98	141
\$7 but under \$8 ,		43	41	84	46	56	102
\$8 but under \$9,		89	22	61	85	19	54
\$9 but under \$10,		43	11	54	42	9	61
\$10 but under \$12,		48	7	55	54	8	62
\$12 but under \$15,		63	4	57	50	5	64
\$15 but under \$20,		41	1	42	84	1	35
\$20 and over,		7	-	7	\ 10	-	10
TOTALS, .	•	863	566	929	406	592	998
			,	- 1		1	

WAGES PAID: BY INDUSTRIES—Continued. CLASSIFIED WEEKLY WAGES: BY INDUSTRIES—1895, 1896 — Continued.

CARPETINGS. [12 Establishments.]

CLASSIFICATION O	r W	REKL	T		1895		1896			
WAGE.				Males	Females	Totals	Males	Females	Totals	
Under \$5,				403	736	1,189	875	612	987	
\$5 but under \$6,				127	510	637	175	582	707	
\$6 but under \$7,				267	480	747	223	398	621	
\$7 but under \$8,				278	275	553	180	406	586	
\$8 but under \$9,				120	217	837	236	257	493	
\$9 but under \$10,				266	234	500	249	166	415	
\$10 but under \$12,				268	93	361	289	145	484	
\$12 but under \$15,				262	8	265	264	18	277	
\$15 but under \$20,				185	-	185	201	-	201	
20 and over, .				60	-	60	67	-	67	
TOTALS, .				2,236	2,548	4,784	2,259	2,529	4,788	

CARRIAGES AND WAGONS. [143 Establishments.]

			- 1	1	1				
Under \$5, .				29	2	81	44	8	47
\$5 but under	\$6,			86	5	41	27	5	82
\$6 but under	\$7,		.]	81	8	84	57	4	61
\$7 but under	\$8,		.]	80	9	89	108	5	108
\$8 but under	\$ 0,			108	1	104	84	2	86
\$9 but under	\$ 10,		.	267	2	269	264	4	268
\$10 but under	\$12 ,		.	498	2	500	424	-	424
\$12 but under	\$ 15,		.]	885	-	885	752	1	758
\$15 but under	\$20 ,		. 1	600	1	601	599	-	599
\$20 and over,	•		.	91	-	91	62	- 1	62
Totals,				2,670	25	2,695	2,416	24	2,440

CEMENT,	KAOLIN,	LIME,	AND	PLASTER.	[10	Establia	shments.]

					l	1	1		1	1
Under \$5, .	•	•			1	-	1	2	-	2
\$5 but under	\$6,				-	-	-	-	-	-
\$6 but under	\$7,				-	-	-	-	-	-
\$7 but under	\$ 8,				13	-	18	11	-	11
\$8 but under	\$ 0,				-		- 1	4	-	4
🗱 but under 🛊	10,				94	-	94	84	-	84
\$10 but under \$	12,				4	-	4	8	-	8
\$12 but under \$	15,				19	-	19	20	-	20
\$15 but under \$	20,				1	-	1	11	_	11
\$20 and over,	•				-	-	- 1	-	-	_
Totals,			•	•	182	-	182	185	-	135

WAGES PAID: BY INDUSTRIES—Continued. CLASSIFIED WEEKLY WAGES: BY INDUSTRIES—1895, 1896 — Continued.

CHEMICAL PREPARATIONS (COMPOUNDED). [12 Establishments.]

CLASSIFICATION O	> W	REKI			1895		1896			
Wage.		-	Males	Females	Totals	Males	Females	Totals		
Under \$5,		•		1	1	2	_	2	2	
\$5 but under \$6,				1	-	1	8	- 1	8	
\$6 but under \$7,				8	-	8	8	-	8	
\$7 but under \$8,				4	-	4	4	-	4	
\$8 but under \$9,				17	1	18	14	1	15	
\$9 but under \$10,				128	-	128	187		137	
\$10 but under \$12,				70	-	70	91	_	91	
\$12 but under \$15,				187	-	137	88	-	88	
\$15 but under \$20,				14	- 1	14	20	-	20	
\$20 and over, .				2	-	2	1	-	1	
TOTALS, .	•	•		882	2	884	866	8	369	

CLOCKS, WATCHES, AND JEWELRY. [99 Establishments.]

						1		
Under \$5,	•		138	248	881	122	192	814
\$5 but under \$6,			152	258	410	115	241	356
\$6 but under \$7,			148	245	388	96	217	318
\$7 but under \$8,			154	260	414	190	232	422
\$8 but under \$9,			185	119	804	192	148	340
\$9 but under \$10,			184	167	351	210	111	321
\$10 but under \$12,			412	67	479	389 ·	89	478
\$12 but under \$15,			567	46	618	552 -	40	592
\$15 but under \$20,			638	21	659	597	10	607
\$20 and over, .		.	809	6	815	808	10	818
Totals, .	•		2,882	1,482	4,314	2,771	·1,290	4,061

CLOTHING. [130 Establishments.]

			- 1			1			
Under \$5, .			.	208	1,309	1,512	189 .	.1,112	1,251
\$5 but under	\$ 6,		.	122	985	1,067	101	888	989
\$6 but under	\$7,		٠.	160	1,289	1,449	148	1,088	1,281
\$7 but under	\$ 8,		.	193	838	1,031	144	971	1,115
\$8 but under	\$ 0,		.	169	640	809	177	855	1,032
\$9 but under	\$ 10,		٠.	218	442	660	237	520	757
\$10 but under	\$12 ,			810	337	647	830	831	661
\$12 but under	\$15 ,		.	425	160	585	870	157	527
\$15 but under	\$20,		.	401	48	444	872	48	430
\$20 and over,	•			822	7	829	808	9	812
TOTALS,				2,528	6,000	8,523	2,316	5,979	8,296

WAGES PAID: BY INDUSTRIES - Continued.

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES—1895, 1896 — Continued.

COOKING, LIGHTING, AND HEATING APPARATUS. [85 Establishments.]

CLASSIFICATION O	- W	RKKI.	.		1895		1896			
Wage.			Males	Females	Totals	Males	Females	Totals		
Under \$5,				83	-	88	28	2	80	
\$5 but under \$6,			٠.	20	-	20	18	-	18	
\$6 but under \$7,			.	46	- 1	46	43	-	48	
\$7 but under \$8,				68	2	70	53	2	55	
\$8 but under \$9,				49	-	49	67		67	
\$9 but under \$10,				210	1	211	210	1	211	
\$10 but under \$12 ,				196	2	198	284	2	236	
\$12 but under \$15,				413	-	418	418	-	418	
\$15 but under \$20,				887	-	387	403	-	408	
\$20 and over, .			•	286	-	286	268	-	263	
TOTALS, .				1,708	5	1,713	1,727	7	1,784	

CORDAGE AND TWINE. [29 Establishments.]

558	699
3 409	527
197	842
5 97	192
1 82	606
7 9	336
1 10	114
3 -	113
s -	98
-	19
1,307	8,046
K	9 -

CORKS, BUNGS, AND TAPS. [8 Establishments.]

		- 1			l i	1		
			7	2	9	4	8	12
			8	1	4	1	6	7
			9	-	9	8	-	8
	•		1	1	2	1	-	1
			-	-	- 1	6	-	6
			6	-	6	8	1	4
			1	-	1	4	-	4
			5	-	5	8	-	8
	•		8	-	3	1	-	1
•	•		1	-	1	-	-	-
•	•		36	4	40	36	15	51
	•							

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES - 1895, 1896 - Continued.

COTTON GOODS. [169 Establishments.]

CLASSIFICATION O	r V	Ver ki			1895		1896			
Wage.			Males	Females	Totals	Males	Females	Totals		
Under \$5,				7,560	12,206	19,766	7,799	12,485	20,284	
\$5 but under \$6,				4,927	8,806	13,783	5,050	8,865	13,915	
\$6 but under \$7,			.	6,875	8,265	15,140	7,279	8,870	15,649	
\$7 but under \$8,			.	5,269	6,409	11,678	5,526	6,806	12,332	
\$8 but under \$9,				4,928	4,834	9,262	5,156	4,674	9,830	
\$9 but under \$10,			.	3,520	1,648	5,168	3,514	1,499	5,018	
\$10 but under \$12,			. }	4,286	596	4,832	4,838	574	4,912	
\$12 but under \$15,				2,227	68	2,290	2,300	51	2,851	
\$15 but under \$20 ,				1,038	8	1,041	1,033	1	1,034	
\$20 and over, .				614	-	614	649	-	649	
TOTALS, .			.	41,194	42,330	83,524	42,644	43,825	85,969	

COTTON, WOOLLEN, AND OTHER TEXTILES. [2 Establishments.]

Under \$5,		51	110	161	59	119	178
\$5 but under \$6,		55	225	280	68	231	294
\$6 but under \$7,		222	324	546	258	845	603
\$7 but under \$8,		98	139	232	110	195	305
\$8 but under \$9,		111	88	194	162	91	253
\$9 but under \$10,		82	47	79	38	50	88
\$10 but under \$12,		153	16	169	158	20	178
\$12 but under \$15,		28	-	28	32	-	32
\$15 but under \$20,		12	_	12	11	-	11
\$20 and over, .		18	-	18	20	-	20
TOTALS, .		775	944	1,719	911	1,051	1,962

CRAYONS, PENCILS, CRUCIBLES, ETC. [4 Establishments.]

						1	1	í	
				1	20	21	-	- ,	-
6,				-	2	2	- 1	15	15
37,				-	4	4	2	-	2
8,				1	-	1	1	-	1
19,				5	-	5	1	-	1
10,				4	-	4	5		5
L2,	•			6	-	6	9	-	9
L5,				4	-	4	1	-	1
20,				-	-	-	2	-	2
•				1	-	1	1	-	1
•		•	•	22	26	48	22	15	37
	\$6, \$7, \$8, \$9, \$10, \$12, \$15,	37,	86,	86,	86, 87, 188, 1 199, 5 100, 4 122, 6 15, 4	86, 2 87, 4 188, 1 199, 5 100, 6 15, 4 200, 1	36, - 2 2 37, - 4 4 48, 1 - 1 19, 5 - 5 10, 4 - 4 12, 6 - 6 15, 4 - 4 20, - - - 1 - 1 -	186, - 2 2 - 187, - 4 4 2 188, 1 - 1 1 199, 5 - 5 1 100, 4 - 4 5 122, 6 - 6 9 185, 4 - 4 1 200, - - 2 1 - 1 1	186, - 2 2 - 15 187, - 4 4 2 - 188, 1 - 1 1 - 199, 5 - 5 1 - 100, 4 - 4 5 - 122, 6 - 6 9 - 155, 4 - 4 1 - 200, - - 2 - 1 - 1 1 -

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES—1895, 1896 — Continued.

DRUGS AND MEDICINES. [27 Establishments.]

CLASSIFICATION O	r W	RRKI	.		1895		1896			
WAGE.				Males	Females	Totals	Males	Females	Totals	
Under \$5,				81	96	127	38	81	119	
\$5 but under \$6,				86	92	128	22	69	91	
\$6 but under \$7,				54	115	169	48	152	195	
\$7 but under \$8,			.	47	74	121	56	49	105	
\$8 but under \$9,			. [85	20	55	83	13	46	
\$9 but under \$10,			.]	55	11	66	56	6	62	
\$10 but under \$12,				77	5	82	80	7	87	
\$12 but under \$15,			.]	56	-	56	58	1 1	59	
\$15 but under \$20,				48	8	51	44	4	48	
\$20 and over, .				19	-	19	24	-	24	
TOTALS, .			١. ا	458	416	874	454	382	836	

DYESTUFFS. [8 Establishments.]

•		1 1		1 1	1	1	
Under \$5,		-	3	8	1	1	2
\$5 but under \$6,		2	2	4	-	2	2
\$6 but under \$7,		-	3	· 8	1	11	12
\$7 but under \$8,		12	6	≠ 18	13	2 -	15
\$8 but under \$9,		2	2	4	10	1	11
\$9 but under \$10,		82	-	82	52	-	52
\$10 but under \$12,		36	-	36	40	-	40
\$12 but under \$15,		22	1	28	23	-	23
\$15 but under \$20,		7	-	7	7	-	7
\$20 and over, .		1	-	1	1	- '	1
TOTALS, .	•	164	17	181	148	17	165

EARTHEN, PLASTER, AND STONE WARE. [7 Establishments.]

					1	1	
Under \$5,		14	5	19	6	6	12
\$5 but under \$6,		21	5	26	12	18	25
\$6 but under \$7,		13	3	16	16	8	19
\$7 but under \$8,		12	-	12	18	2	20
\$6 but under \$9,		52	1	53	27	1	28
\$9 but under \$10,		36	-	86	25	-	25
\$10 but under \$12,		44	-	44	122	-	122
\$12 but under \$15,		42	-	42	28	-	28
\$15 but under \$20,		46	-	46	88	-	83
\$20 and over, .		8	-	8	4	-	4
TOTALS, .		283	14	297	291	25	816
	 	 <u> </u>					

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES - 1895, 1896 - Continued.

ELECTRICAL APPARATUS AND APPLIANCES. [28 Establishments.]

CLASSIFICATION O	• W	REKT	,		1805		1896			
WAGE.				Males	Females	Totals	Males	Females	Totals	
Under \$5,	•	•		243	158	896	148	93	241	
\$5 but under \$6,			.	80	69	149	84	65	149	
\$6 but under \$7,			٠.	114	94	208	98	48	141	
\$7 but under \$8,			.	165	47	212	155	56	211	
\$8 but under \$9,			.	204	56	260	216	91	307	
\$9 but under \$10,			.	259	68	822	175	24	199	
\$10 but under \$12,				452	2	454	408	2	410	
\$12 but under \$15,		•		747	2	749	724	2	726	
\$15 but under \$20,				458	- 1	458	499		490	
\$20 and over, .		•		104	-	104	96	-	96	
Totals, .				2,826	486	8,812	2,598	881	2,979	

ELECTROPLATING. [12 Establishments.]

			1	1	1	1	1	
Under \$5,			11	-	11	6	_	6
\$5 but under \$6,			8	1	9	7	1	8
\$6 but under \$7,			· 8	2	10	9	-	9
\$7 but under \$8,			,8	1	9	9	-	9
\$8 but under \$9,	•		6	8	9	10	-	10
\$9 but under \$10,			24	-	24	29	2	31
\$10 but under \$12,			22	-	22	18	1	19
\$12 but under \$15,			27	-	27	31	-	31
\$15 but under \$20,			28	_	28	38	-	38
\$20 and over, .	•		9	-	9	16	-	16
TOTALS,	•		151	7	158	173	4	177

EMERY AND SAND PAPER AND CLOTH, ETC. [10 Establishments.]

•			5					
		•		- 1	5	17	-	17
		•	8	-	8	7	-	7
			8	-	8	8	-	8
			18	-	18	13	-	13
			1	-	1	19	1	20
			61	1	62	60	-	60
			115	1	116	188	-	138
			51	1	52	64	1	65
			38	-	38	48	-	48
			5	-	5	6		6
			810	8	818	880	2	382
	•			18 1 61 115 51 38		18		18

WAGES PAID: BY INDUSTRIES - Continued. CLASSIFIED WEEKLY WAGES: BY INDUSTRIES - 1895, 1896 - Continued.

FANCY ARTICLES, ETC. [11 Establishments.] .

CLASSIFICATION O	p V	Verki			1895		1896			
Wage.			-	Males	Females	Totals	Males	Females	Totals	
Under \$5,				13	106	119	16	81	97	
\$5 but under \$6,				6	41	47	7	46	58	
\$6 but under \$7,				10	84	44	8	56	64	
\$7 but under \$8,				6	25	81	5	85	40	
\$8 but under \$9,				7	15	22	6	5	11	
\$9 but under \$10,				11	7	18	12	8	20	
\$10 but under \$12,				13	8	21	19	4	23	
\$12 but under \$15,				26	1	27	27	8	80	
\$15 but under \$20,				16	2	18	15	-	15	
\$20 and over, .				4	-	4	2	-	2	
TOTALS, .				112	239	351	117	238	855	

FERTILIZERS. [3 Establishments.]

				1			1	1	
Under \$5,				-	_	-	-	_	-
\$5 but under \$6,				-	-	-	-	-	-
\$6 but under \$7,				-	-	-	-	-	-
\$7 but under \$8,				_	-	-	2	-	2
\$8 but under \$9,				-	-	-	-	-	-
\$9 but under \$10,				1	-	1	1	-	1
\$10 but under \$12,				81	-	81	28	-	28
\$12 but under \$15,				9	-	9	11	-	11
\$15 but under \$20,				9	_	9	11	-	11
\$20 and over, .				1	-	1	1	-	1
TOTALS, .	•	•	•	51	-	51	54	-	. 54

FINE ARTS AND TAXIDERMY. [8 Establishments.]

			ł		1	1	1	
Under \$5,			-	- 1	-	1	-	1
\$5 but under \$6,		•	1	-	1	1	1	2
\$6 but under \$7,			-	1	1	-	-	-
\$7 but under \$8,			-	-	-	-	-	-
\$8 but under \$9,			1	-	1	-	-	-
\$9 but under \$10,			1	_	1	2	· -	2
\$10 but under \$12,			8	-	8 1	3	-	8
\$12 but under \$15,			2	-	2 '	4	-	4
\$15 but under \$20,			4	-	4 1	2	<u> </u>	2
\$20 and over, .			1	-	1	1	_	1
Totals, .			13	1	14	14	1	15
	 		<u> </u>	<u> </u>	<u> </u>	<u> </u>		·

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES—1895, 1896 — Continued.

FIREWORKS AND MATCHES. [4 Establishments.]

CLASSIFICATION (of W	Veeki	.Y		1895		1896			
WAGE	•			Males	Females	Totals	Males	Females	Totals	
Under \$5,				-	41	41	1	14	15	
\$5 but under \$6,				14	9	28	8	26	34	
\$6 but under \$7,				2		7	10	5	15	
\$7 but under \$8,				2	-	2	15	4	19	
\$8 but under \$9,				9		9	7	-	7	
\$9 but under \$10,				10	2	12	12	1 1	13	
\$10 but under \$12,				19	-	19	, 8	-	8	
\$12 but under \$15,				7	-	7	5	- 1	5	
\$15 but under \$20,				10	-	10	. 7	-	7	
\$20 and over, .				3	-	8	6	- '	6	
Totals, .				76	57	133	79	50	129	

FLAX, HEMP, JUTE, AND LINEN GOODS. [10 Establishments.]

				1	1	l i	
Under \$5,		258	548	796	250	584	834
\$5 but under \$6,		133	431	564	105	410	515
\$6 but under \$7,		195	125	820	245	156	401
\$7 but under \$8,		115	28	143	130	40	170
\$8 but under \$9,		127	8	135	113	7	120
\$9 but under \$10,		115	-	115	100	8	103
\$10 but under \$12,		128	1	129	84	-	84
\$12 but under \$15,		83	-	83	83	- 1	83
\$15 but under \$20,		82	-	82	37	-	87
\$20 and over, .	•	4	-	4	. 5	-	5
TOTALS, .		1,185	1,136	2,821	1,152	1,200	2,852

FOOD PREPARATIONS. [319 Establishments.]

TOTALS,					6,492	2,671	9,163	6,406	2,595	9,001
\$20 and over,	•	•	•	•	174	-	174	173	-	173
\$15 but under	\$2 0,		•		660	6	666	609	5	614
\$12 but under	\$ 15,	•		.	1,419	12	1,431	1,418	14	1,427
\$10 but under	\$12,				1,001	33	1,034	951	27	978
\$9 but under	\$ 10,				1,026	42	1,068	935	83	968
\$8 but under	\$ 9,				904	51	955	977	68	1,045
\$7 but under	\$8,				848	124	467	423	114	537
\$6 but under	\$7,				410	440	850	898	435	828
\$5 but under	\$ 6,			.	827	491	818	229	470	699
Under \$5, .		•		•	228	1,472	1,700	308	1,429	1,732

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES — 1895, 1896 — Continued.

FURNITURE. [119 Establishments.]

CLASSIFICATIO	K ON	·w	REKT			1895		1896			
WAG					Males	Females	Totals	Males	Females	Totals	
Under \$5, .					124	95	219	174	96	270	
\$5 but under \$	6,				144	74	218	129	64	193	
\$6 but under \$	7,				152	90	242	169	77	246	
\$7 but under \$	8,			.	831	94	425	344	117	461	
\$8 but under \$	9,			.	400	40	440	815	85	350	
\$9 but under \$1	0,			.	582	82	614	473	18	486	
\$10 but under \$1	2,			.	608	10	618	589	12	601	
\$12 but under \$1	5,			.	794	6	800	712	6	718	
\$15 but under \$2	Ю,				556	1	557	502	-	502	
\$20 and over,					91	-	91	94	-	94	
TOTALS,				.	8,782	442	4,224	8,501	420	8,921	

GLASS. [14 Establishments.]

Under \$5,		52	8	55	68	8	71
\$5 but under \$6,		13	2	15	19	8	27
\$6 but under \$7,		52	15	67	29	5	34
\$7 but under \$8,		23	1	24	21	1	22
\$8 but under \$9,		87	_	87	12	-	12
\$9 but under \$10,		14	. 1	15	22	-	22
\$10 but under \$12,		47	_	47	50	-	50
\$12 but under \$15,		30	-	80	54	- '	54
\$15 but under \$20,		96	-	96	86	-	86
\$20 and over, .		25	_	25	20	-	20
TOTALS, .		389	22	411	381	17	398
		1		1	II.	ı	l

GLUE, ISINGLASS, AND STARCH. [23 Establishments.]

		l i			1		l
Under \$5,		2	23	25	2	88	40
\$5 but under \$6,		11	6	17	8	3	11
\$6 but under \$7,		48	-	48	45	4	49
\$7 but under \$8,		95	24	119	84	25	109
\$8 but under \$9,		86	7	93	75	8	78
\$9 but under \$10,		96	1	97	152	1	153
\$10 but under \$12,		111	-	111	128	2	130
\$12 but under \$15,		89	-	39	42	1	43
\$15 but under \$20,		16	-	16	21	_	21
\$20 and over, .		4	-	4	8	-	8
TOTALS, .		508	61	564	560	77	637
	 						L

84 STATISTICS OF MANUFACTURES. [Pub. Doc.

WAGES PAID: BY INDUSTRIES - Continued.

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES — 1895, 1896 — Continued.

HAIR WORK (ANIMAL AND HUMAN). [7 Establishments.]

CLASSIFICATION O	r W	REKL	т		1895		1896			
WAGE.				Males	Females	Totals	Males	Females	Totals	
Under \$5,		•		11	34	4.5	10	82	4.9	
\$5 but under \$6,				1	38	39	1	32	83	
\$6 but under \$7,			.	_	7	7	4	7	11	
\$7 but under \$8,			.	3	1	4	7	2	9	
\$8 but under \$9,			.	7	4	11	20	3	25	
\$9 but under \$10,			.	24	2	26	20	2	22	
\$10 but under \$12,			.	17	2	19	6	2	8	
\$12 but under \$15,			.	6	1	7	8	1	4	
\$15 but under \$20,			.	4	_	4	8	_	i 8	
\$20 and over, .				1	_	1	-	-	-	
TOTALS, .			.	74	89	163	74	81	156	

HOSE: RUBBER, LINEN, ETC. [4 Establishments.]

			1					
Under \$5, .			71	104	175	95	203	298
\$5 but under	\$ 6,		52	29	81	50	59	109
\$6 but under	\$7,		95	16	111	99	27	126
\$7 but under	\$8,		106	9	115	187	12	149
\$8 but under	\$ 9,		78	8	86	100	6	106
\$9 but under	\$ 10,		72	6	78	103	6	109
\$10 but under	\$ 12,		70	4	74	91	3	94
\$12 but under	\$1 5,	•	73	-	78	78	-	78
\$15 but under	\$9 0,		83	-	83	92	- 1	92
\$20 and over,			16	-	16	18	-	18
Totals,			716	176	892	863	816	1,179

HOSIERY AND KNIT GOODS. [42 Establishments.]

TOTALS,					2,463	4,033	6,496	1,965	4,488	6,453
\$20 and over,					57	-	57	45	- '	45
\$15 but under	\$2 0,			.	82	1	83	98	4	102
\$12 but under	\$ 15,			.	188	19	207	155	22	177
\$10 but under	\$ 12,	•		.	298	61	859	223	81	804
\$9 but under	\$1 0,				195	189	334	150	122	272
\$8 but under	\$9,				229	285	514	166	276	442
\$7 but under	\$8,		•	.	267	580	847	225	530	755
\$6 but under	\$7,	•	•	.	401	720	1,121	851	719	1,070
\$5 but under	\$6,				220	806	1,026	163	874	1,037
Under \$5, .			•	•	526	1,422	1,948	889	1,860	2,249

WAGES PAID: BY INDUSTRIES - Continued.

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES — 1895, 1896 — Continued.

INK, MUCILAGE, AND PASTE. [7 Establishments.]

CLASSIFICATION O	p V	VKKKI			1895		1896			
WAGE.				Males	Females	Totals	Males	Females	Totals	
Under \$5,				2	43	45	_	13	18	
\$5 but under \$6,			.	8	5	8	4	6	10	
\$6 but under \$7,			.	2	8	5	5	2	7	
\$7 but under \$8,			.	11	2	18	2	1	8	
\$8 but under \$9,			.	6	-	6	8	1	9	
\$9 but under \$10,				6	1	7	6	1	7	
\$10 but under \$12,				6	-	6	7	1	8	
\$12 but under \$15,			.	3	-	8	4	-	4	
\$15 but under \$20,			.	7	1	8	5	_	5	
\$20 and over, .			.	2	-	2	8	-	8	
TOTALS, .				48	56	103	44	25	69	

IVORY, BONE, SHELL, AND HORN GOODS, ETC. [18 Establishments.]

	-				1		
Under \$5,		50	54	104	40	55	95
\$5 but under \$6,		46	64	110	35	54	89
\$6 but under \$7,		61	45	106	42	58	95
\$7 but under \$8,		88	20	108	71	28	99
\$8 but under \$9,		109	2	111	76	3	79
\$9 but under \$10,		138	-	188	136	2	188
\$10 but under \$12,		192	1	198	161	1	162
\$12 but under \$15,		138	1	139	118	8	121
\$15 but under \$20,		34		84	43	-	48
\$20 and over, .		4	-	4	5	-	5
TOTALS, .		860	187	1,047	727	199	926
		1 1			1		

LEATHER. [143 Establishments.]

Under \$5,			189	78	267	196	78	274
\$5 but under \$6,		٠,	155	49	204	216	50	266
\$6 but under \$7,		.	419	69	488	415	58	478
\$7 but under \$8,		.]	651	48	699	639	63	702
\$8 but under \$9,			957	60	1,017	861	28	889
\$9 but under \$10,			1,891	23	1,914	1,799	10	1,809
\$10 but under \$12,		.	2,177	2	2,179	1,890	13	1,903
\$12 but under \$15,			1,080	8	1,083	1 046	2	1,048
\$15 but under \$20,		.	580	2	582	472	-	472
\$2 0 and over, .			123	- '	123	125	- 1	125
TOTALS, .			8,222	334	8,556	7,659	302	7,961

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES — 1895, 1896 — Continued.

LIQUORS AND BEVERAGES (NOT SPIRITUOUS). [28 Establishments.]

CLASSIFICATION () P	WE	RKL		1895		1896			
WAGE	•			Males	Females	Totals	Males	Females	Totals	
Under \$5,				5	2	7	6	8	9	
\$5 but under \$6,				8	-	3	3	-	8	
\$6 but under \$7,				16	1	17	15	-	15	
\$7 but under \$8,				29	1	80	33	-	83	
\$8 but under \$9,				16	-	16	9	_	9	
\$9 but under \$10,				49	-	49	84	-	34	
\$10 but under \$12,				49	-	49	42	-	42	
\$12 but under \$15,				79	-	79	82	l - l	82	
\$15 but under \$20,				27	-	27	18	-	18	
\$20 and over, .				5	-	5	2	-	9	
TOTALS, .				278	4	282	244	8	247	

LIQUORS: MALT, DISTILLED, AND FERMENTED. [57 Establishments.]

						1	1	
Under \$5,			10	1	11	9	2	11
\$5 but under \$6,			7	-	7	12	-	12
\$6 but under \$7,			18	-	18	25	-	25
\$7 but under \$8,			40	2	42	84	8	37
\$8 but under \$9,			42	1	43	66	1	67
\$9 but under \$10,			152	-	152	170	-	170
\$10 but under \$12,			201	-	201	148	-	143
\$12 but under \$15,		.	506	-	506	364	-	364
\$15 but under \$20,			798	-	798	1,037	-	1,037
\$20 and over, .			110	-	110	127	-	127
Totals, .	•	٠	1,879	4	1,888	1,987	6	1,993

LUMBER. [82 Establishments.]

							1 1		
			•	14	-	14	25	8	28
6,				7	4	11	12	1	13
17,				28	5	88	57	5	62
18,				98	-	98	74	-	74
19,				132	1	138	157	-	157
10,				238	1	239	272	1	278
2,				191	1	192	147	1	148
5,				154	-	154	127	-	127
ю,				108	-	108	100	- 1	100
				22	-	22	27	-	27
•	•		•	992	12	1,004	998	11	1,009
	17, 18, 19, 10, 2,	7,	7,	7,	16,	18 . . . 7 4 17 . . . 28 5 18 19 10 10 10 10 	16 . . . 7 4 11 17 . . . 28 5 33 18 . . . 98 - 98 19 133 133 10 10 . <td>18 . . . 7 4 11 12 17 . . . 28 5 33 57 18 . . . 98 - 98 74 19 . . . 132 1 133 157 10 . . . 238 1 239 272 22 . . . 102 147 15 . . . 154 - 154 127 10 10 </td> <td>16 </td>	18 . . . 7 4 11 12 17 . . . 28 5 33 57 18 . . . 98 - 98 74 19 . . . 132 1 133 157 10 . . . 238 1 239 272 22 . . . 102 147 15 . . . 154 - 154 127 10 10 	16

WAGES PAID: BY INDUSTRIES - Continued.

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES—1895, 1896 — Continued.

MACHINES AND MACHINERY. [871 Establishments.]

CLASSIFICATION O	r W	ZEKL	.r		1895		1896			
WAGE.				Males	Females	Totals	Males	Females	Totals	
Under \$5,				915	66	981	1,098	86	1,184	
\$5 but under \$6,				883	108	991	826	87	913	
\$6 but under \$7,				1,229	132	1,861	1,192	117	1,309	
\$7 but under \$8,				1,920	40	1,960	1,857	46	1,908	
\$8 but under \$9,				1,864	35	1,899	1,847	46	1,898	
\$9 but under \$10,				2,426	28	2,454	2,664	29	2,693	
\$10 but under \$12,				2,869	12	2,881	2,973	15	2,988	
\$12 but under \$15,				4,201	4	4,205	4,442	4	4,446	
\$15 but under \$20,				2,800	1	2,801	8,084	2	3,086	
\$20 and over, .		•	•	667	1	668	694	-	694	
TOTALS, .				19,774	427	20,201	20,677	482	21,109	

METALS AND METALLIC GOODS. [882 Establishments.]

							1		
				1,015	490	1,505	887	511	1,398
\$6,				638	512	1,145	645	501	1,146
\$7,				1,052	346	1,398	971	364	1,385
\$ 8,				1,115	183	1,298	1,157	148	1,305
\$ 9,				1,033	101	1,134	1,034	69	1,108
\$ 10,				2,075	55	2,130	2,120	48	2,168
\$12 ,				2,260	46	2,306	2,124	44	2,168
\$ 15,				2,987	17	2,954	2,788	7	2,795
20,				2,298	5	2,303	2,890	2	2,892
				828	4	882	674	_	674
			٠	15,246	1,759	17,005	14,790	1,694	16,484
	\$6, \$7, \$8, \$9, \$10, \$15, \$20,	\$7, . \$8, . \$9, . \$10, . \$12, .	\$7, \$8, \$9,	\$7,	\$6, 633 \$7, 1,052 \$8, 1,115 \$9, 1,083 \$10, 2,075 \$12, 2,280 \$15, 2,987 \$20,	\$6, 638 512 346 \$7, 1,052 346 \$8, 1,115 183 \$9, 1,083 101 \$10, 2,075 55 \$12, 2,280 46 \$15, 2,987 17 \$22,98 5 828 4	\$6, . 633 512 1,145 \$7, . 1,052 346 1,398 \$8, . 1,115 183 1,298 \$9, . 1,083 101 1,134 \$10, . 2,075 55 2,130 \$12, . 2,200 46 2,306 \$15, . 2,987 17 2,954 \$20, . 2,298 5 2,303 . . 828 4 832	\$6, . 638 512 1,145 645 \$7, . 1,052 346 1,398 971 \$8, . 1,115 183 1,298 1,157 \$9, . 1,033 101 1,134 1,034 \$10, . 2,075 55 2,130 2,120 \$12, . 2,260 46 2,306 2,124 \$15, . 2,987 17 2,954 2,788 \$20, . 2,298 5 2,303 2,390 . . . 828 4 882 674	\$6, . 638 512 1,145 645 501 \$7, . 1,052 346 1,398 971 364 \$8, . 1,115 183 1,298 1,157 148 \$9, . 1,083 101 1,134 1,084 69 \$10, . 2,075 55 2,180 2,120 48 \$12, . 2,280 46 2,306 2,124 44 \$15, . 2,987 17 2,964 2,788 7 \$20, . 2,298 5 2,303 2,390 2 . . . 828 4 882 674 -

MIXED TEXTILES. [12 Establishments.]

Under \$5,		56	128	184	50	118	168
\$5 but under \$6,		45	87	82	29	49	78
\$6 but under \$7,		61	50	111	64	47	111
\$7 but under \$8,		164	21	185	176	18	194
\$8 but under \$9,		63	6	69	50	8	58
\$9 but under \$10,		67	5	72	68	4	67
\$10 but under \$12,		39	2	41	81	1	32
\$12 but under \$15,		45	-	45	48	-	48
\$15 but under \$20,		16	-	16	29	- 1	29
\$20 and over, .		17	-	17	18	- 1	18
TOTALS, .		573	249	822	558	245	808
		I l					

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES — 1895, 1896 — Continued.

MODELS, LASTS, AND PATTERNS, [49 Establishments.]

CLASSIFICATION O	. W	KEKL			1895	1	1896			
WAGE.				Males	Females	Totals	Males	Females	Totais	
Under \$5,				10	_	10	26	1	27	
\$5 but under \$6,			.	6	-	6	5	-	5	
\$6 but under \$7,			.	18	1	14	19	1	20	
\$7 but under \$8,				12	-	12	18	-	13	
\$8 but under \$9,			.	14	-	14	24	-	24	
\$9 but under \$10,			.	41	-	41	48	-	43	
\$10 but under \$12,			.	44	-	44	50	-	50	
\$12 but under \$15,				102	-	102	126	- !	126	
\$15 but under \$20,			.	169	-	169	154	-	154	
\$20 and over, .				97	-	97	76	-	76	
TOTALS, .			.]	508	1	509	536	2	538	

MUSICAL INSTRUMENTS AND MATERIALS. [65 Establishments.] Under \$5, . \$5 but under \$6, . \$6 but under \$7. . \$7 but under \$8. .

\$8 but under \$9,		101	2	103	90	2	92
\$9 but under \$10,		167	1	168	114	2	116
\$10 but under \$12,		238	3 '	241	248	3	251
\$12 but under \$15,		585	1	586	554	- 1	554
\$15 but under \$20,		785	- 1	785	635	-	635
\$20 and over, .		243	-	243	177	- !	177
TOTALS, .	•	2,383	182	2,515	2,133	109	2,242

OILS AND ILLUMINATING FLUIDS. [9 Establishments.]

	- 1	1		- 11	i		
		3	20	23	7	60	67
	.	2	2	4	1	-	1
		2	11	13	2	9	11
		3	- 1	8	20	- ;	20
	.]	1	-	1	2	- 1	2
	.	11	- 1	11	19	_	19
	.	22	-	22	23	-	23
		36	-	36	23	-	23
	.	12	-	12	10	- i	10
		-	- 1	-	2	-	2
		92	33	125	109	69	178
			2 2 3 1 1 11 22 2 36 12	2 2 11	2 2 4 2 11 13 3 - 3 1 - 1 11 - 11 22 - 22 36 - 36 12 - 12 - - -	2 2 4 1 2 11 13 2 3 - 8 20 1 - 1 2 11 - 11 19 22 - 22 23 36 - 36 23 12 - 12 10 - - 2	2 2 4 1 - 2 11 13 2 9 3 - 8 20 - 1 - 1 2 - 11 - 11 19 - 22 - 22 23 - 36 - 36 23 - 12 - 12 10 - - - - 2 -

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES-1895, 1896 — Continued.

PAINTS, COLORS, AND CRUDE CHEMICALS. [28 Establishments.]

CLASSIFICATION O	- W	'RRKI			1895		1896			
WAGE.			•	Males	Females	Totals	Males	Females	Totals	
Under \$5,				2	4	6	2	8	5	
\$5 but under \$6,			.	8	8	11	5	5	10	
\$6 but under \$7,				9	4	18		-	5	
\$7 but under \$8,			.	7	6	13	10	6	16	
\$8 but under \$9,			.	24	1	25	16	- 1	16	
\$9 but under \$10,			.	63	1	64	54	1	55	
\$10 but under \$12,			.	52	1	53	51	2	53	
\$12 but under \$15,			.	57	1	58	54	1	55	
\$15 but under \$20,			.	16		16	22	-	22	
\$20 and over, .			.	13	-	13	18	-	18	
TOTALS, .				246	26	272	232	18	250	

PAPER AND PAPER GOODS. [123 Establishments.]

		1	1		1]		ľ
Under \$5,			231	1,546	1,777	232	1,396	1,628
\$5 but under \$6,		-	172	1,504	1,676	186	1,378	1,564
\$6 but under \$7,		.	872	1,492	1,864	345	1,577	1,922
\$7 but under \$8,			754	631	1,385	648	596	1,244
\$8 but under \$9,			760	833	1,093	721	278	994
\$9 but under \$10,		.]	1,424	196	1,620	1,448	138	1,586
\$10 but under \$12,		.	940	72	1,012	955	48	1,003
\$12 but under \$15,		.	1,104	17	1,121	1,065	16	1,081
\$15 but under \$20,			788	9	797	787	7	794
\$20 and over, .		.	204	1	205	208	-	208
TOTALS, .	•		6,749	5,801	12,550	6,595	5,429	12,024

PERFUMES, TOILET ARTICLES, ETC. [4 Establishments.]

		!	i	1 1	'		
Under \$5,		2	2	4	2	1	8
\$5 but under \$6,		_	9	9	2	7	9
\$6 but under \$7,		2	2	4	-	2	2
\$7 but under \$8,		1	1	2	1	2	8
\$8 but under \$9,		-	-	- ;	2	2	4
\$9 but under \$10,		-	-	- '	-	1	1
\$10 but under \$12,		3	-	8	1	-	1
\$12 but under \$15,		4	-	4	2	_	2
\$15 but under \$20,		1	-	1 ,	1	-	1
\$20 and over, .		-	_	-	2	-	2
TOTALS, .	•	13	14	27	18	15	28
	 	 <u> </u>	·	<u> </u>	·	·	·

WAGES PAID: BY INDUSTRIES - Continued.

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES — 1895, 1896 — Continued.

PHOTOGRAPHS AND PHOTOGRAPHIC MATERIALS. [24 Establishments.]

CLASSIFICATION O	r W	ERKL			1895		1896			
WAGE.	Wage.			Males	Females	Totals	Males	Females	Totals	
Under \$5,				69	113	182	58	121	179	
\$5 but under \$6,				18	17	35	9	19	28	
\$6 but under \$7,			.	24	26	50	28	36	64	
\$7 but under \$8,			.	20	19	39	24	13	37	
\$8 but under \$9,			.	17	15	32	19	20	. 39	
\$9 but under \$10,				29	16	45	83	16	49	
10 but under \$12,			.	34	9	43	43	10	53	
\$12 but under \$15,			.	49	11	60	54	6	60	
\$15 but under \$20,			.	65	5	70	61	4	66	
20 and over, .				41	4	45	81	2	33	
TOTALS, .				366	235	601	360	247	607	

POLISHES AND DRESSING. [38 Establishments.]

							1	1	
Under \$5, .				12	73	85	8	82	85
\$5 but under	\$ 6,			8	19	27	6	16	22
\$6 but under	\$ 7,			4	30	84	8	48	51
\$7 but under	\$ 8,			9	9	18	8	14	22
\$8 but under	\$ 9,			9	7	16	5	10	15
\$9 but under \$	10,		٠.	12	28	40	7	9	16
\$10 but under \$	12,			24	10	84	40	19	59
\$12 but under \$	15,			56	_	56	46	8	54
\$15 but under \$	20,			89	-	39	25	1	26
\$20 and over,				25	-	25	22	-	22
TOTALS,				198	176	874	165	207	372

PRINTING, PUBLISHING, AND BOOKBINDING. [47 Establishments.]

						1		
Under \$5,			226	257	488	190	290	490
\$5 but under \$6,			89	129	218	97	116	213
\$6 but under \$7,			91	181	272	96	135	231
\$7 but under \$8,	, .		67	146	213	64	147	211
\$8 but under \$9,	, .		93	104	197	77	80	157
\$9 but under \$10			90	65	155	102	67	169
\$10 but under \$12,			217	70	287	222	66	288
\$12 but under \$15,	, .		303	23	326	297	87	334
\$15 but under \$20,			386	11	397	378	11	384
\$20 and over, .			308	2	806	283	2	285
Totals, .			1,865	988	2,858	1,801	951	2,752
					il	1		

WAGES PAID: BY INDUSTRIES - Continued.

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES — 1895, 1896 — Continued.

PRINT WORKS, DYE WORKS, AND BLEACHERIES. [47 Establishments.]

CLASSIFICATION O	W W	ZKKI.			1895		1896			
WAGE			-	Males	Females	Totals	Males	Females	Totals	
Under \$5,				615	294	909	618	373	991	
\$5 but under \$6,				899	464	863	897	505	902	
\$6 but under \$7,				695	883	1,078	804	364	1,168	
\$7 but under \$8,				1,882	110	1,442	1,348	104	1,452	
\$8 but under \$9,				679	68	747	705	80	735	
\$9 but under \$10,				598	88	636	531	52	583	
\$10 but under \$12,				564	7	571	460	9	469	
\$12 but under \$15,				316	3	319	331	2	338	
\$15 but under \$20,				169	-	169	183	1 1	184	
\$20 and over, .				254		254	274	-	274	
TOTALS, .				5,621	1,867	6,988	5,651	1,440	7,091	

RAILROAD CONSTRUCTION AND EQUIPMENT. [16 Establishments.]

			ı				il .	1	•
Under \$5, .				8	-	8	5	-	5
\$5 but under	\$6,		.	8	-	8	83	-	88
\$6 but under	\$7,			24	-	24	28	-	28
\$7 but under	\$ 8,		.]	74	-	74	95	-	95
\$8 but under	\$9 ,		.	221	-	221	856	-	856
89 but under	\$ 10,		.	420	-	420	555	- 1	555
\$10 but under	\$12,			568	-	568	618	-	613
\$12 but under	\$ 15,			1,096	-	1,096	1,322	-	1,822
\$15 but under	\$20,			407	-	407	400	-	400
\$20 and over,			. [46	-	46	35	-	85
Totals,				2,872	-	2,872	3,442	-	8,442

RUBBER AND ELASTIC GOODS. [41 Establishments.]

TOTALS,				5,432	4,161	9,593	5,103	8,839	8,942
\$20 and over,		•	.	132	1	133	126	1	127
\$15 but under t	20,			707	16	723	595	10	605
\$12 but under (15,		.	907	133	1,040	968	89	1,057
\$10 but under	12,		.	764	477	1,241	758	288	1,041
\$9 but under	10,		.	1,041	582	1,623	1,064	635	1,699
\$8 but under	\$ 9,		.	754	570	1,824	626	539	1,165
\$7 but under	\$ 8,		- [393	642	1,035	877	682	1,059
\$6 but under	\$ 7,		٠.	197	483	680	192	525	717
\$5 but under	\$ 6,		.	219	418	637	157	890	547
Under \$5, .			- 1	318	839	1,157	245	680	925

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES — 1895, 1896 — Continued.

SADDLERY AND HARNESS. [41 Establishments.]

CLASSIFICATION O	r W	KEKL	,		1805		1896			
Wage.				Males	Females	Totals	Males	Females	Totals	
Under \$5,				8	13	21	6	14	20	
\$5 but under \$6,				10	14	24	2	13	15	
\$6 but under \$7,			.	10	17	27	4	24	28	
\$7 but under \$8,			.	14	81	45	23	29	52	
\$8 but under \$9,			.	24	14	38	21	l n	32	
\$9 but under \$10,				44	9	58	43	12	55	
\$10 but under \$12,			- 1	78	7	85	98	8	100	
\$12 but under \$15,				113	8	116	66	1	67	
\$15 but under \$20,			.	57	-	57	57	-	57	
\$20 and over, .				10	-	10	8	-		
Totals, .				368	108	476	328	112	440	

SCIENTIFIC INSTRUMENTS AND APPLIANCES. [20 Establishments.]

		l i					
Under \$5,		44	12	56	55	16	71
\$5 but under \$6,		22	26	48	19	16	35
\$6 but under \$7,		21	13	84	28	16	44
\$7 but under \$8,		14	4	18	22	5	27
\$8 but under \$9,		19	3 j	22	29	3	32
\$9 but under \$10,		43	5	48	40	8	43
\$10 but under \$12,		36	-	36	41	8	44
\$12 but under \$15,		80	- 1	80	59	1	60
\$15 but under \$20,		73	- i	78	77	-	77
\$20 and over, .		24	-	24	41	-	41
TOTALS, .		876	63	439	411	68	474

SHIPBUILDING. [51 Establishments.]

		1	i	i	!1	1	ı	
Under \$5,			147	-	147	100	-	100
\$5 but under \$6,			21	-	21	20	-	20
\$6 but under \$7,			22	-	22	13	- '	13
\$7 but under \$8,			22	-	22	14	-	14
\$8 but under \$9,		. [27	-	27	29	-	29
\$9 but under \$10,			62	-	62	33	- !	33
\$10 but under \$12,			60	-	60 'i	61	- 1	61
\$12 but under \$15,			188	-	188	215	-	215
\$15 but under \$20,			235	-	235	808	-	308
\$20 and over, .			42	-	42	22	-	22
TOTALS, .			826	-	826	810	-	810

WAGES PAID: BY INDUSTRIES - Continued. CLASSIFIED WEEKLY WAGES: BY INDUSTRIES - 1895, 1896 --- Continued.

SILK AND SILK GOODS. [9 Establishments.]

Classification o	r W	7 REKL	.т		1895		1896			
WAGE.			-	Males	Females	Totals	Males	Females	Totale	
Under \$5,				37	276	818	51	266	817	
\$5 but under \$6,				78	365	443	57	330	3 87	
\$6 but under \$7,				67	288	355	92	290	382	
\$7 but under \$8,				74	136	210	59	117	176	
\$8 but under \$9,			. !	62	79	141	51	81	132	
\$9 but under \$10,			.	61	66	127	67	77	144	
\$10 but under \$12,				116	66	182	136	62	198	
\$12 but under \$15,				86	86	122	77	8	88	
\$15 but under \$20,			. !	59	6	65	55	-	55	
\$20 and over, .	•			22	-	22	22	-	22	
TOTALS, .				662	1,318	1,980	667	1,231	1,898	

SPORTING AND ATHLETIC GOODS. [9 Establishments.]

			1		- 11	1		
Under \$5,			46	30	76	71	32	103
\$5 but under \$6,		.	42	7	49	45	9	54
\$6 but under \$7,		- 1	46	14	60	68	8	76
\$7 but under \$8,		.	123	7	130	92	11	103
\$8 but under \$9,		.	87	2	39	48	5	53
\$9 but under \$10,		-	96	-	96	98	1	94
\$10 but under \$12,		.	96.	-	96	114	-	114
\$12 but under \$15,		.	189	-	139	121	-	121
\$15 but under \$20,	•	.	55	-	55	68	-	66
\$20 and over, .		-	6	-	6	8	-	8
TOTALS, .		-	686	60	746	728	66	794

STONE. [199 Establishments.]

	 	T	·		11			
Under \$5,		.	222	-	222	155	-	155
\$5 but under \$6,		.	148	-	143	164	-	164
\$6 but under \$7,			215	-	215	250	-	250
\$7 but under \$8,		• [360	-	860	370	-	270
\$8 but under \$9,		.	343	-	848	439	-	439
\$9 but under \$10,		.	1,219	-	1,219	1,089	-	1,089
\$10 but under \$12,		.	1,268	-	1,268	1,816	-	1,316
\$12 but under \$15,		.	1,274	- !	1,274	1,241	-	1,241
\$15 but under \$20,		.	1,692	-	1,692	1,756	-	1,756
\$20 and over, .			181	-	181	248	-	248
TOTALS, .			6,917	-	6,917	7,028	-	7,028

WAGES PAID: BY INDUSTRIES—Continued. CLASSIFIED WEEKLY WAGES: BY INDUSTRIES—1895, 1896 — Continued.

STRAW AND PALM LEAF GOODS. [21 Establishments.]

CLASSIFICATION (or V	Veekl	. т		1895		1896			
WAGE	•			Males	Females	Totals	Males	Females	Totals	
Under #5,				28	186	214	27	335	362	
\$5 but under \$6,			. [18	821	339	48	269	317	
\$6 but under \$7,			.	86	313	899	105	876	481	
\$7 but under \$8,				158	452	610	155	435	590	
\$8 but under \$9,				107	368	475	176	339	515	
\$9 but under \$10,				825	410	785	317	446	763	
\$10 but under \$12,			.]	295	343	638	190	262	452	
\$12 but under \$15,				304	257	561	233	204	437	
\$15 but under \$2 0,			.:	160	58	218	165	55	220	
\$20 and over, .				28	10	38	29	7	36	
TOTALS, .				1,509	2,718	4,227	1,445	2,728	4,173	

TALLOW, CANDLES, SOAP, AND GREASE. [60 Establishments.]

Under \$5		23	76	99	18	65	83
\$5 but under \$6,		12	11	23	10	12	22
\$6 but under \$7,		10	5	15	12	11	23
\$7 but under \$8,		29	8	82	34	6	40
\$8 but under \$9,		83	8	36	15	_	15
\$9 but under \$10,		136	-	136	189	_	139
\$10 but under \$12,		162	1	163	159	1	160
\$12 but under \$15,		100	-	100	105	-	105
\$15 but under \$20,		54	-	54	56		56
\$20 and over, .		11	-	11	12	-	12
TOTALS, .		570	99	669	560	95	655

TOBACCO, SNUFF, AND CIGARS. [48 Establishments.]

		1	- 1	11			
		51	179	230	47	95	142
	.	19	78	92	22	104	126
		18	108	126	13	139	152
		16	80	96	12	56	68
	.	13	24	37	20	23	43
	.	46	20	66	33	13	46
	.	90	29	119	107	22	129
	.	275	39	814	294	39	333
	.	516	8	524	484	6 I	490
		277	2	279	253	2	255
		1,821	562	1.883	1,285	499	1,784
			19 18 16 13 46 90 275 516 277	19 73 18 108 16 80 13 24 46 20 90 29 275 39 516 8 277 2			

WAGES PAID: BY INDUSTRIES - Continued. CLASSIFIED WEEKLY WAGES: BY INDUSTRIES - 1895, 1896 --- Continued.

TOYS AND GAMES (CHILDREN'S). [11 Establishments.]

CLASSIFICATION O	, 7	Veeki	.,		1895			1896	
WAGE.				Males	Females	Totals	Males	Females	Total
Under \$5,			.	54	56	110	42	80	12:
\$5 but under \$6,			- 1	41	25	66	42	15	5
\$6 but under \$7,			.	45	25	70	46	24	70
\$7 but under \$8,			- 1	78	14	92	61	17	78
\$8 but under \$9,				41	11	52	58	14	6
\$9 but under \$10,			• 1	59	5	64	54	4	51
\$10 but under \$12,			.	51	2	58	52	8	54
\$12 but under \$15,			.	29	-	29	39	i - I	31
\$15 but under \$20,			. i	18	-	18	13	-	13
\$20 and over, .			.	8	-	8	10	-	10
TOTALS				424	138	562	412	157	561

	TE	RUN	IK8	AN	D VA	LISES.	[7 Esta	[7 Establishments.]			
Under \$5, .					22	8	25	7	_	7	
\$5 but under	\$ 6,			.	-	3	8	8	4	7	
\$6 but under	\$7,				2	5	7	2	8	5	
\$7 but under	\$ 8,			.	6	-	6	8	-	8	
\$8 but under	\$ 9,				1	-	1	1	-	1	
\$9 but under \$	10,			.	9	-	9	13	-	18	
\$10 but under \$	12,				17	1	18	14	1	15	
\$12 but under \$	15,			.	23	-	23	15	-	15	
\$15 but under \$	20,			.	18	_	18	15	-	15	
\$20 and over,					1	-	1	1	-	1	
Totals,				. -	99	12	111	79	8	87	

WHIP	3,	LAS	ASHES, AND STOCKS. [15 Establishments.]				ments.]			
Under \$5,				29	22	51	23	12	85	
\$5 but under \$6,			.	8	11	19	22	48	65	
\$6 but under \$7,				27	52	79	10	29	39	
\$7 but under \$8,				19	26	45	83	18	51	
\$8 but under \$9,			.	15	10	25	50	11	61	
\$9 but under \$10,			.	61	8	69	27	4	81	
\$10 but under \$12,			.	88	1	89	47	- 1	47	
\$12 but under \$15,			.	58	-	58	31	-	81	
\$15 but under \$20,			.	81	-	31	18	-	18	
\$20 and over, .			.	7	-	7	5	-	5	
TOTALS, .			. [-	293	130	423	266	117	883	

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES — 1895, 1896 — Continued.

WOODEN GOODS. [158 Establishments.]

CLASSIFICATION O	r W	KEKL	<u>,</u>		1805		1896			
WAGE.				Males	Females	Totals	Males	Females	Totals	
Under \$5,				132	23	155	125	14	139	
\$5 but under \$6,			.	103	11	114	77	10	87	
\$6 but under \$7,			.	185	10	145	125	14	139	
\$7 but under \$8,			.	293	9	302	214	6	220	
\$8 but under \$9,				236	5	241	299	6	308	
\$9 but under \$10,				524	3	527	470	2	479	
\$10 but under \$12,		•	-	859	4	363	368	5	378	
\$12 but under \$15,			.	706	2	708	670	2	672	
\$15 but under \$20,				645	1	646	593	8	601	
\$20 and over, .				117	2	119	89	4	93	
TOTALS, .			.	3,250	79	3,320	3,030	71	8,10	

WOOLLEN GOODS. [122 Establishments.]

		- 1	1		1	1 i		
Under \$5,			1,180	1,876	3,056	1,033	1,641	2,674
\$5 but under \$6,		.	850	1,042	1,892	810	1,068	1,878
\$6 but under \$7,		.	1,907	1,054	2,961	1,864	1,103	2,967
\$7 but under \$8,		.	1,895	1,058	2,953	1,959	1,158	8,112
\$8 but under \$9,		.	1,361	668	2,029	1,295	589	1,834
\$9 but under \$10,		.	1,375	389	1,764	1,485	320	1,755
\$10 but under \$12,		.	1,282	204	1,486	1,098	179	1,277
\$12 but under \$15,		.	781	56	837	783	49	832
\$15 but under \$20,		.	355	-	355	394	1	395
\$20 and over, .		.	183	-	183	168	-	168
TOTALS, .			11,169	6,347	17,516	10,839	6,053	16,892
					ı l	1 1		

WORSTED GOODS. [27 Establishments.]

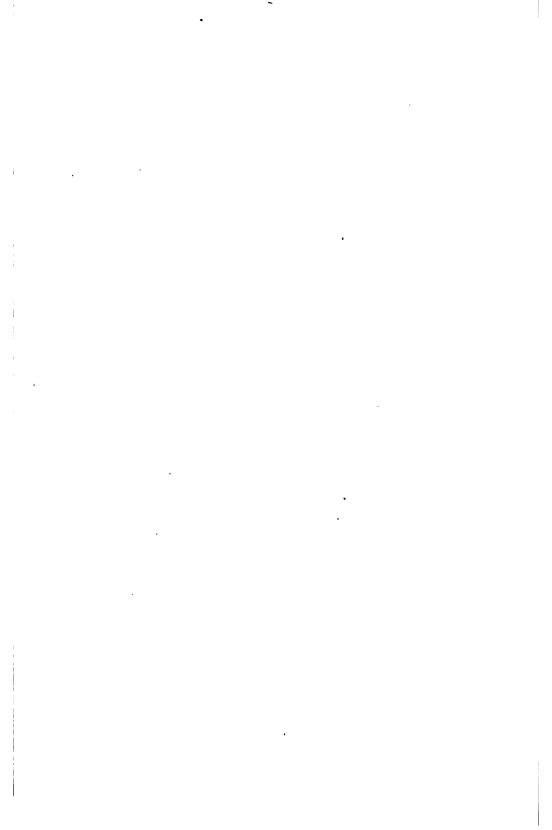
		780	1,912	2,692	764	1,783	2,547
		717	1,600	2,817	749	1,905	2,654
		1,054	1,503	2,557	1,158	1,483	2,641
	.	1,275	683	1,958	1,257	614	1,871
	.	543	307	850	579	339	918
	.	714	162	876	681	232	913
	.	863	154	1,017	1,023	163	1,186
	.	729	24	753	672	24	696
		165	4	169	176	3	179
	. 1	94	1	95	102	2	104
		6,934	6,350	13,284	7,161	6,548	13,709
:	· · · · · · · · · · · · · · · · · · ·		717 1,054 1,275 543 714 863 729 165	717 1,600 1,054 1,503 1,275 683 543 307 714 162 863 154 729 24 165 4			

WAGES PAID: BY INDUSTRIES - Concluded.

CLASSIFIED WEEKLY WAGES: BY INDUSTRIES — 1895, 1896 — Concluded.

ALL INDUSTRIES. [4,609 Establishments.]

CLASSIFICATION O	. W	ERKL	, l		1895		1896				
WAGE.				Males	Females	Totals	Males	Females	Totals		
Under \$5,				19,621	81,780	51,401	19,208	81,763	50,966		
\$5 but under \$6,			.	13,282	22,575	85,857	13,170	22,684	35,854		
\$6 but under \$7,			.	20,046	21,751	41,797	20,601	21,706	42,307		
\$7 but under \$8,				22,846	15,727	88,078	22,304	16,309	38,613		
\$8 but under \$9,				21,411	10,611	82,022	22,201	10,982	88,183		
\$9 but under \$10,				28,858	6,955	35,813	28,855	6,716	85,571		
\$10 but under \$12,				82,974	5,010	87,984	82,426	5,005	87,431		
\$12 but under \$15,				87,593	2,538	40,131	87,201	2,364	39,565		
\$15 but under \$20,				28,460	735	29,195	28,538	814	29,852		
\$20 and over, .		•		9,285	74	9,359	9,064	96	9,160		
TOTALS, .				233,876	117,756	851,632	233,568	118,439	352,002		



PROPORTION OF BUSINESS DONE

AND

DAYS IN OPERATION:

BY INDUSTRIES.

PROPORTION OF BUSINESS DONE: BY INDUSTRIES.

1895, 1896.

[The figures given in this presentation represent the average proportion of business done by each establishment in the industries considered. Greatest capacity, or maximum production, has been considered as 100 per cent, and the percentages given indicate the average proportion of business done by each establishment during each year on the basis stated. Comparison is made between 1895 and 1896, and the relative increase or decrease in 1896 as compared with 1895 is given with its equivalent percentage.]

Industries.	Number of Estab- lishments	POR	SE PRO- TION ESS DONE	Increase (+), or Decrease (-), in 1896	
	Con- sidered	1895	1896	Proportion	Percent-
Agricultural implements,	8	60.00	60.38	+0.38	+0.68
Arms and ammunition,	12	51.67	54.25	+2.58	+4.99
Artisans' tools,	69	56.01	52.48	-3.53	-6.30
Awnings, sails, tents, etc.,	82	41.69	40.78	-0.91	-2.18
Bicycles, tricycles, etc.,	10	67.80	57.70	-10.10	14.90
Boots and shoes,	605	62.04	58.61	-3.43	-6.53
Boxes (paper and wooden),	158	61.91	59.86	-2.05	-3.81
Brick, tiles, and sewer pipe,	56	64.52	67.18	+2.66	+4.12
Brooms, brushes, and mops,	19	64.42	59.42	—5.00	-7.76
Burial cases, caskets, coffins, etc.,	7	78.14	67.14	-6.00	-8.20
Buttons and dress trimmings,	15	48.67	42.13	-6.54	-13.44
Carpetings,	12	78.50	68.25	—5.25	-7.14
Carriages and wagons,	143	60.23	56.48	-3.80	-6.31
Cement, kaolin, lime, and plaster,	10	60.00	59.70	-0.30	0.50
Chemical preparations (compounded), .	12	61.33	53.50	7.83	-12.77
Clocks, watches, and jewelry,	99	58.86	52.15	-6.21	-10.64
Clothing,	130	64.03	59.94	-4.09	-6.39
Cooking, lighting, and heating apparatus,	35	67.37	64.51	-2.86	-4.25
Cordage and twine,	29	64.17	65.86	+1.69	+2.63
Corks, bungs, and taps,	8	46.67	55.00	+8.33	+17.85
Cotton goods.	169	87.22	77.33	-9.89	-11.84
Cotton, woollen, and other textiles,	2	94.50	67.00	27.50	-29.10
Crayons, pencils, crucibles, etc.,	4	56.25	43.75	-12.50	-22.22
Drugs and medicines.	27	55.56	50.93	-4.63	-8.33
Dyestuffs,	8	59.88	45.25	-14.63	-24.48
Earthen, plaster, and stone ware,	7	56.29	58.71	+2.42	+4.30
Electrical apparatus and appliances	23	64.04	65.70	+1.66	+2.59
Electroplating,	12	55.33	51.67	-3.66	-6.61
Emery and sand paper and cloth, etc.,	10	65.70	61.30	-4.40	-6.70
Fancy articles, etc.	11	65.45	56.82	+1.87	+2.47
Fertilizers,	3	58.33	56.67	-1.66	-2.85

No. 36.] PROPORTION OF BUSINESS DONE, ETC. 101

PROPORTION OF BUSINESS DONE: BY INDUSTRIES—1895, 1896—Concluded.

Industries.	Number of Estab- lishments	AVERACE PORTION OF BUSIN		INCREASE (+), OR DECREASE (-), IN 1896	
	Con- sidered	1895	1896	Proportion	Percent- ages
Fine arts and taxidermy,	3	69.38	75.00	+5.67	+8.18
Fireworks and matches,	4	62.75	65.00	+2.25	+8.59
Flax, hemp, jute, and linen goods,	10	70.90	78.70	+2.80	+8.95
Food preparations,	319	61.46	60.71	-0.75	-1.22
Furniture,	119	58.13	55.29	-2.84	-4.89
Glass,	14	59.86	49.48	-10.43	-17.42
Glue, isinglass, and starch,	23	61.00	64.09	+8.09	+5.07
Hair work (animal and human),	7	54.86	49.29	-5.57	-10.15
Hose: rubber, linen, etc.,	4	64.50	60.00	-4.50	-6.98
Hosiery and knit goods,	42	62.86	57.26	-5.60	-8.91
Ink, mucilage, and paste,	7	49.71	49.71	+_	٠.
Ivory, bone, shell, and horn goods, etc., .	18	67.56	61.44	-6.12	-9.06
Leather,	143	66.51	58.35	-8.16	-12.27
Liquors and beverages (not spirituous), .	28	56.11	51.89	-4.72	-8.41
Liquors: malt, distilled, and fermented, .	57	56.98	58.02	+1.04	+1.83
Lumber,	82	63.06	56.88	-6.18	-9.80
Machines and machinery,	371	59.08	56.78	-2.30	-8.89
Metals and metallic goods,	382	61.90	59.10	-2.80	-4.52
Mixed textiles.	12	78.58	63.42	-10.16	-13.81
Models, lasts, and patterns,	40	56.58	54.43	-2.10	-8.71
Musical instruments and materials,	65	58.14	58.77	-4.87	-7.52
Oils and illuminating fluids,	9	61.11	59.44	-1.67	-2.78
Paints, colors, and crude chemicals,	23	59.09	55.35	-3.74	-6.88
Paper and paper goods.	123	73.96	70.77	-3.19	-4.31
Perfumes, toilet articles, etc.,	4	57.50	50.00	-7.50	-18.04
Photographs and photographic materials.	24	57.17	56.00	-1.17	-2.05
Polishes and dressing,	83	56.45	58.06	-8.39	-6.01
Printing, publishing, and bookbinding, .	47	65.47	65.64	+0.17	+0.26
Print works, dye works, and bleacheries,	47	64.47	59.98	-4.49	-6.96
Railroad construction and equipment.	16	73.94	80.88	+6.94	+9.89
Rubber and elastic goods.	41	68.59	61.44	-7.15	-10.42
Saddlery and harness,	41	50.78	51.22	+0.44	+0.87
Scientific instruments and appliances,	20	67.75	64.50	-8.25	-4.80
Shipbuilding,	51	41.68	43.12	+1.49	+3.58
Silk and silk goods,	9	59.78	54.78	-5.00	-8.86
Sporting and athletic goods,	9	51.11	45.56	-5.65	-10.86
Stone,	199	54.98	58.17	-1.76	-8.20
Straw and palm leaf goods,	21	70.76	70.88	-0.48	-0.61
Tallow, candles, soap, and grease,	60	58.23	58.80	-4.43	—7.61
Tobacco, snuff, and cigars,	48	56.46	54.06	-2.40	-4.25
Toys and games (children's),	11	59.64	57.27	-2.37	-3.97
Trunks and valises,	7	70.71	54.86	-15.85	-22.42
Whips, lashes, and stocks,	15	71.78	54.53	-17.20	-23.98
Wooden goods,	153	59.32	55.20	-4.12	-6.95
Woollen goods,	122	82.81	69.50	-13.81	-16.07
Worsted goods,	27	86.56	70.80	-15.26	-17.84
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DAYS IN OPERATION: BY INDUSTRIES.

1895, 1896.

[The figures given in this presentation represent the average number of days each person was employed in the industries considered during the years 1895 and 1896. The average number of days in operation is based upon the average number of persons employed, the number of days per establishment being multiplied by the figures representing the average number of persons, and the sum divided by the aggregate average number of persons, an average for each industry and for All Industries being thus obtained. Comparison is made between 1895 and 1896, and the relative increase or decrease in 1896 as compared with 1895 is given with its equivalent percentage.]

Industries.	Number of Estab- lishments		NUMBER DAYS RATION	Increas or Decrea 186	8E (—), EX
	Con- sidered	1895	1806	Days	Percent- ages
Agricultural implements,	8	281.46	277.27	-4.19	-1.49
Arms and ammunition,	12	289.29	293.81	+4.52	+1.56
Artisans' tools,	69	282.91	282.68	0.28	0.06
Awnings, sails, tents, etc.,	82	288.45	288.28	0.22	0.08
Bicycles, tricycles, etc.,	10	298.11	296.86	-1.25	-0.43
Boots and shoes,	606	284.64	282.30	-2.84	0.82
Boxes (paper and wooden),	158	284.71	277.05	—7.66	-2.69
Brick, tiles, and sewer pipe,	56	212.80	227.26	+14.46	+6.80
Brooms, brushes, and mops,	19	263.67	252.30	-11.37	-4.31
Burial cases, caskets, coffins, etc.,	7	299.92	298.72	-1.20	-0.40
Buttons and dress trimmings,	15	266.85	252.53	-13.82	-5.19
Carpetings,	12	299.68	241.14	-58.49	-19.52
Carriages and wagons,	143	288.90	278.03	-10.87	-3.76
Cement, kaolin, lime, and plaster,	10	281.38	291.98	+10.65	+3.79
Chemical preparations (compounded), .	12	300.43	294.11	-6.32	-2.10
Clocks, watches, and jewelry,	99	277.59	261.38	-16.21	-5.84
Clothing,	130	290.25	278.18	-12.12	-4.18
Cooking, lighting, and heating apparatus,	85	258.66	261.78	+8.12	+1.21
Cordage and twine,	29	286.40	281.48	-4.92	-1.72
Corks, bungs, and taps,	8	285.22	279.65	-5.57	-1.95
Cotton goods,	169	297.36	279.53	-17.83	-6.00
Cotton, woollen, and other textiles,	2	301.48	286.98	14.50	-4.81
Crayons, pencils, crucibles, etc.,	4	239.41	234.36	-5.05	-2.11
Drugs and medicines.	27	297.78	299.73	+1.96	+0.65
Dyestuffs,	8	278.80	229.36	-49.44	-17.73
Earthen, plaster, and stone ware,	7	297.56	268.21	-29.35	-9.86
Electrical apparatus and appliances, .	23	300.12	298.78	-1.34	-0.45
Electroplating,	12	283.58	288.32	+4.74	+1.67
Emery and sand paper and cloth, etc., .	10	297.90	295.89	-2.01	-0.67
Fancy articles, etc	11	290.22	282.62	-7.60	-2.62
Fertilizers,	3	805.02	806.86	+1.84	+0.60

No. 36.] PROPORTION OF BUSINESS DONE, ETC. 103

DAYS IN OPERATION: BY INDUSTRIES — 1895, 1896
— Concluded.

	Number of	AVERAGE	NUMBER	INCREAS	E (+),
Industries.	Estab- lishments	IN OPE	DATS	OR DECREA	8E`(—), 11 96
	Con- sidered	1895	1896	Days	Percent-
Fine arts and taxidermy,	8	807.40	808.27	-4.18	-1.84
Fireworks and matches,	4	257.46	295.44	+37.98	+14.75
Flax, hemp, jute, and linen goods,	10	290.06	267.21	-22.85	-7.88
Food preparations,	819	298.47	297.42	1.06	-0.35
Furniture,	119	291.97	288.17	-3.80	1.30
Glass,	14	290.06	261.17	-28.89	-9.96
Glue, isinglass, and starch,	23	259.80	241.81	-17.99	-6.94
Hair work (animal and human),	7	265.07	268.84	-1.78	-0.65
Hose: rubber, linen, etc.,	4	805.44	806.89	+1.45	+0.47
Hosiery and knit goods,	42	298.15	287.78	-10.37	-3.48
Ink, mucilage, and paste,	7	301.81	802.61	+0.80	+0.27
Ivory, bone, shell, and horn goods, etc., .	18	283.87	279.77	-3.60	-1.27
Leather,	148	294.73	286.13	8.60	-2.92
Liquors and beverages (not spirituous), .	28	301.67	299.05	-2.62	0.87
Liquors: malt, distilled, and fermented, .	57	290.68	289.65	-0.98	-0.84
Lumber,	82	246.67	272.48	+25.76	+10.44
Machines and machinery,	871	297.55	292.16	5.89	-1.81
Metals and metallic goods,	882	284.14	278.79	-5.85	-1.88
Mixed textiles,	12	293.35	258.01	-85.84	-12.05
Models, lasts, and patterns,	49	293.16	289.04	-4.12	-1.41
Musical instruments and materials,	65	289.23	272.24	-16.99	-5.87
Oils and illuminating fluids,	9	303.83	804.10	+0.27	+0.09
Paints, colors, and crude chemicals, .	28	276.12	264.17	-11.95	-4.88
Paper and paper goods,	123	287.84	272.56	-14.78	-5.14
Perfumes, toilet articles, etc.,	4	294.62	284.24	-10.88	-3.52
Photographs and photographic materials,	24	303.83	292.75	-11.08	-3.65
Polishes and dressing,	83	291.90	296.84	+4.94	+1.69
Printing, publishing, and bookbinding, .	47	286.47	296.58	+10.11	+8.58
Print works, dye works, and bleacheries,	47	298.82	282.44	-16.38	-5.48
Railroad construction and equipment, .	16	287.98	288.52	+0.59	+0.20
Rubber and elastic goods,	41	283.89	266.73	-17.16	-6.04
Saddlery and harness,	41	290.08	286.60	-3.48	-1.20
Scientific instruments and appliances, .	20	296.55	300.73	+4.18	+1.41
Shipbuilding,	51	276.89	285.05	+8.16	+2.95
Silk and silk goods,	9	296.65	259.33	-87.82	-12.58
Sporting and athletic goods,	9	301.33	280.95	-20.38	-6.76
Stone,	199	281.65	280.99	-0.66	-0.23
Straw and palm leaf goods,	21	278.97	272.37	-1.60	-0.58
Tallow, candles, soap, and grease,	60	298.21	291.85	-6.36	-2.13
Tobacco, snuff, and cigars,	48	293.47	290.02	-3.45	-1.18
Toys and games (children's),	11	288.56	288.79	+0.23	+0.08
Trunks and valises,	7	287.82	248.07	-39.25	-13.66
Whips, lashes, and stocks,	15	298.65	274.42	-24.23	-8.11
Wooden goods,	153	287.58	285.22	-2.86	-0.82
Woollen goods,	122	292.19	259.65	-32.54	11.14
Worsted goods,	27	305.64	279.35	-26.29	-8.60
ALL INDUSTRIES,	4,609	291.56	279.43	-12.18	-4.16

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STATISTICS OF MANUFACTURES: INDUSTRY PRESENTATIONS.

BOOTS AND SHOES. CARPETINGS. CARRIAGES AND WAGONS. CLOTHING. COTTON GOODS. FOOD PREPARATIONS. FURNITURE. HOSIERY AND KNIT GOODS. LEATHER. MACHINES AND MACHINERY. METALS AND METALLIC GOODS. MUSICAL INSTRUMENTS AND MATERIALS. PAPER AND PAPER GOODS. WOOLLEN GOODS. WORSTED GOODS. ALL INDUSTRIES.

1895, 1896.

NOTES

The following explanatory notes should be read in connection with the tables to which they refer:

ESTABLISHMENTS, PARTNERS, ETC.

There are duplications in the lines devoted to "Number of private firms," "Partners," "Number of corporations," and "Stockholders." They are caused by the fact that the same firm or corporation is often engaged in manufacturing in two or more establishments located in different towns and sometimes in different industries. The plan adopted has been to consider each establishment (whether managed in connection with another or not) as one, and to credit the whole number of firms, partners, corporations, and stockholders to each industry, but to count them once only in making up the total for the presentation "All Industries." The industries in which these duplications appear may be ascertained by reference to the tables on pages 4 to 11.

CAPITAL INVESTED.

In this presentation, the figures given against "Amount of capital invested" represent the returns made by the same establishments for each of the years given. Comparison is made, as regards the amount of capital invested, between these two years. The relative increase or decrease in the later year as compared with the earlier year is given in amounts and percentages.

STOCK USED.

In this presentation, the figures given against "Total value of stock used" represent the returns made by the same establishments for each of the years given. Comparison is made between the value of stock used in each of these two years. The relative increase or decrease in the later year as compared with the earlier year is given in amounts and percentages.

GOODS MADE.

In this presentation, the figures given against "Total value of goods made and work done" represent the returns made by the same establishments for each of the years given. Comparison is made between the value of goods made and work done in each of these two years. The relative increase or decrease in the later year as compared with the earlier year is given in amounts and percentages.

PERSONS EMPLOYED.

This presentation is divided into two sections. In the first is shown the aggregate average number of persons employed, the aggregate number of persons employed at periods of employment of the smallest number, the aggregate number of persons employed at periods of employment of the greatest number, and the excess of greatest over smallest number. By the terms "Periods of employment of smallest number" and "Periods of employment of greatest number" are meant those times, as regards aggregate number of persons employed, when the smallest or greatest number, respectively, was employed. The relative increase or decrease, expressed in amounts and percentages, is also given for one year as compared with the other. In the second section is shown the aggregate number of persons employed, by sex, during each month of the two years specified. It must be borne in mind that the number of persons here enumerated are wage earners only; officers, clerks, or other salaried persons are not included.

WAGES AND EARNINGS.

In this presentation is shown the total amount paid in wages to all wage earners employed for each of the two years, the average yearly earnings per individual without regard to sex or age, and the relative increases or decreases in one year as compared with the other, expressed in

amounts and percentages. The average yearly earnings have been obtained by dividing the sum of the total amount paid in wages by the figures representing the average number of persons employed. In this section is also shown the classified weekly wages paid to employes, ranging from under \$5 per week to \$20 per week and over, and the number of males and females receiving such wage. The returns were made by manufacturers to cover the week during which the largest number of persons was employed. It must be borne in mind that these figures represent the sums paid to wage earners only and do not include amounts paid to officers, clerks, or other salaried persons.

PROPORTION OF BUSINESS DONE AND DAYS IN OPERATION.

In this presentation is shown the average proportion of business done and the average number of days in operation. Greatest capacity, or maximum production, has been considered 100 per cent, and the percentages given indicate the average proportion of business done by each establishment during each year on the basis stated. The average number of days in operation is based upon the average number of persons employed, the number of days worked in each establishment being multiplied by the figures representing the average number of persons, and the sum divided by the aggregate average number of persons, thus obtaining an average for each industry and for "All Industries." The relative increase or decrease in the later year as compared with the earlier year is given with its equivalent percentage.

BOOTS AND SHOES. 1895, 1896.

ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED,						D,	1895	1896	Increase (+), De- crease (), or No Change (), in 1896		
PAR	PARTNERS, ETC.								Number	Percent- ages	
Number of establish	hmer	ts r	epor	ting,			605	605	=	-	
Number of private	Arme	, .					549	548	_1	-0.18	
Number of partners	١, .					.	899	892	_7	-0.78	
Males,						.	872	863	9	-1.03	
Females, .							9	13	+4	+4.4	
Special, .						.	13	14	+1	+7.69	
Estates, .				•			5	2	-8	-60.00	
Number of corpora	tions	, .					56	57	+1	+1.79	
Number of stockho	lders	, .				.	810	926	+116	+14.32	
Males,						.	623	734	+111	+17.82	
Females, .						.	158	168	+10	+6.33	
Banks, trustees	, etc.	, .				.	29	24	-5	-17.24	
Aggregates : partne	rs ai	d s	tocki	olde	rs,		1,709	1,818	+109	+6.38	

CAPITAL INVESTED.

Capital Invested.	1895	1896	Increase (+), or Decrease (-), in 1896	
CAFIIAL INVESTED.	1050	1390	Amount	Percent-
Amount of capital invested,	\$23,172,349	\$19,990,145	-\$3,182,204	-13.73

STOCK USED. AGGREGATE VALUES.

STOCK USED.	1895	1896	Increase (+), or Decrease (-), in 1896	
STOCK USED.	1990	1990	Amount	Percent- age
Total value of stock used,	\$55,559,505	\$58,883,477	-\$1,676,028	-8.02

GOODS MADE. AGGREGATE VALUES.

Q W			Increase (+), or Decrease (-), in 1896		
GOODS MADE.	1895	1896	Amount	Percent-	
Total value of goods made and work done, .	\$89,938,212	\$87,945,168	-\$1,993,044	-2.22	

BOOTS AND SHOES—1895, 1896—Continued. PERSONS EMPLOYED.

PERSONS EMPLOYED.								1000	Increase (+), or Decrease (-), in 1896		
FERSO	NS E	MPLC	YED.	_			1895	1896	Number	Percent- ages	
Average number,							43,180	42,263	-917	-2.12	
Smallest number,						.	83,362	32,679	-683	-2.05	
Greatest number,						.	52,063	51,998	-65	-0.12	
Excess of greatest	over	sma	llest	num	ber,	.	18,701	19,319	+618	+8.80	

PERSONS EMPLOYED: BY MONTHS.

	36						1895	. !	1896			
	Mon	THS	•			Males	Females	Totals	Males	Females	Totals	
January,						29,629	12,929	42,558	28,360	12,743	41,103	
February,					.	29,741	12,878	42,614	29,565	13,366	42,981	
March,					.	30,664	18,361	44,025	29,979	13,216	43,195	
April, .					.	80,776	18,875	44,151	30,350	18,379	43,729	
May, .					.]	80,677	18,605	44,282	80,200	13,545	43,745	
June, .					.	81,258	18,618	44,866	29,932	13,839	43,271	
July, .					.	30,589	18,112	48,701	28,979	12,699	41,678	
Auguet,						81,044	18,499	44,548	29,370	18,189	42,559	
September	,.				. 1	80,217	18,125	48,842	29,327	13,196	42,528	
October,	•				.	28,920	12,578	41,498	28,931	13,143	42,074	
November	, •				.	28,460	12,391	40,851	27,871	12,866	89,737	
December,						28,597	12,608	41,200	27,678	12,574	40,247	
During the	enti	e y	ear,	٠.		2,844	866	3,210	2,108	949	8,057	

^{* 92} establishments in 1895; 85 establishments in 1896.

WAGES AND EARNINGS.

W B			1895	1000	Increase (+), or Decrease (-), in 1896	
WAGES AND EARNINGS.			1999	1896	Amounts	Percent- ages
Total amount paid in wages, Average yearly earnings,	:	•	\$20,838,632 482.60	\$20,834,831 492.97	-\$4,301 +10.87	-0.02 +2.15

BOOTS AND SHOES - 1895, 1896 - Concluded. CLASSIFIED WEEKLY WAGES.

CLASSIFICATI	on c) F			1895		1896			
WEEKLY W				Males	Females	Totals	Males	Females	Totale	
Under \$5,		•		1,905	2,785	4,640	1,879	2,928	4,805	
\$5 but under \$6,			. !	1,404	1,901	3,305	1,808	1,687	2,995	
\$6 but under \$7,				1,815	2,061	3,876	1,861	1,967	3,828	
\$7 but under \$8,			. 1	2,222	1,842	4,064	2,187	1,872	4,000	
\$8 but under \$9,			.	2,337	1,615	8,952	2,441	1,713	4,154	
\$9 but under \$10,			.	8,412	1,729	5,141	3,303	1,808	5,111	
\$10 but under \$12,			- 1	5,335	2,049	7,384	5,271	2,264	7,635	
\$12 but under \$15,	٠.		.	7,988	1,505	9,493	7,838	1,457	9,295	
\$15 but under \$26,			.	7,024	513	7,537	6,628	615	7,288	
\$20 and over, .				2,432	82	2,464	2,385	56	2,441	
TOTALS, .				85,874	15,982	51,856	85,046	16,365	51,411	

PROPORTION OF BUSINESS DONE.

Proportion of Business Done and	100-	1000	Increase (+), ob Decrease (), in 1896		
DATS IN OPERATION.	1895	1896	Proportion and Days	Percent-	
Average proportion of business done, Average number of days in operation,	62.04 284.64	58.61 282.30	-8.48 -2.84	-5.58 -0.83	

CARPETINGS. 1895, 1896.

ESTABLISHMENTS, PARTNERS, ETC.

Number of Establishments Considered,						1895	1994	Increase (+), De- crease (-), or No Change (-), in 1896		
Partners, etc.								Number	Percent-	
Number of establishment	s re	por	ting,	•		12	12	=	-	
Number of private firms,						8	8	=	-	
Number of partners,						4	4	=	-	
Males,						4	4	=	-	
Number of corporations,						9	9	=	-	
Number of stockholders,						1,056	1,055	-1	-0.00	
Males,					.	477	487	 +10	+2.10	
Females,					.	396	388	 -8	-2.62	
Banks, trustees, etc.,					.	188	180	-8	-1.64	
Aggregates : partners and	l sto	ckb	older	18,	$ \cdot $	1,060	1,069	_1	-0.00	

CARPETINGS — 1895, 1896 — Continued.

CAPITAL INVESTED.

Capital Invested.	1895	1000	Increase (+), or Decrease (-), in 1896	
CAPITAL INVESTED.	1949	1896	Amount	Percent-
Amount of capital invested,	\$6,008,497	\$6,020,485	+\$11,988	+0.20

STOCK USED. AGGREGATE VALUES.

STOCE USED.	1895	1896	INCREASE (+), OR DECREASE (-), IN 1886	
SIOCA USED.	1390	1954	Amount	Percent-
Total value of stock used,	\$4,836,556	\$3,802,865	-\$1,033,691	-28.84

GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1895	1996	Increase (+), or Decrease (-), in 1896		
GOODS MADE.	1690	1554	Amount	Percent- age	
Total value of goods made and work done, .	\$7,218,798	\$5,674,687	-\$1,589,161	-21.84	

PERSONS EMPLOYED.

PERSO							1895	1806	INCREASE (+), OR DECREASE (-), IN 189			
PERSO	ns E	EPLC	YED.				1999	1300	Number	Percent-		
Average number,							4,616	4,282	-884	-8.82		
Smallest number,		•				.	4,851	8,417	-984	-21.47		
Greatest number,		•					4,794	4,791	-8	0.06		
Excess of greatest	over	smal	lest	aun'	ber,		448	1,874	+931	+210.16		

PERSONS EMPLOYED: BY MONTHS.

						1895		1896				
	M	DETH	3.		Males	Females	Totals	Males	Females	Totals		
January,					2,182	2,519	4,701	2,152	2,472	4,624		
February,				.	2,184	2,491	4,675	2,174	2,382	4,586		
March,				.	2,083	2,460	4,543	2,191	2,285	4,476		
April, .					2,161	2,885	4,486	2,115	2,294	4,409		
May, .					2,152	2,369	4,521	2,165	2,411	4,576		
June, .					2,209	2,468	4,677	2,158	2,419	4,572		

CARPETINGS — 1895, 1896 — Concluded.

PERSONS EMPLOYED: BY MONTHS - Concluded.

_	_			i		1895		1996			
	Mor	TH	5.		Males	Females	Totals	Males	Females	Totals	
July,			•		2,206	2,450	4,656	2,178	2,298	4,476	
August, .			•	.	2,251	2,416	4,667	2,073	2,088	4,161	
September, .				.	2,201	2,426	4,627	1,556	1,363	2,919	
October, .				.	2,235	2,400	4,635	1,891	1,793	3,684	
November, .				.	2,151	2,377	4,528	2,047	2,035	4,082	
December, .				.	2,238	2,438	4,676	2,126	2,163	4,289	
During the e	nti	18 V	ear.*		91	12	103	390	90	480	

^{*} Two establishments in 1895; four establishments in 1896.

WAGES AND EARNINGS.

Wages and Earnings.	1895	1896	Increase (+), or Decrease (-), in 1896	
WAGES AND CARRINGS.	1999	1990	Amounts	Percent- ages
Total amount paid in wages,	\$1,709,689 370.38	\$1,443,472 341.09	-\$266,217 -29.29	-15.57 -7.91

CLASSIFIED WEEKLY WAGES.

CLASSIFICAT	ion (O.F			1895			1894			
WEEKLY W				Males	Females	Totals	Males	Females	Totals		
Under \$5,	•			403	736	1,139	375	612	987		
\$5 but under \$6,				127	510	637	175	532	707		
\$6 but under \$7,			.]	267	480	747	223	398	621		
\$7 but under \$8,			.	278	275	558	180	406	586		
\$8 but under \$9,			.	120	217	837	236	257	493		
\$9 but under \$10,			.	266	234	500	249	166	415		
\$10 but under \$12,			.	268	93	361	289	145	434		
\$12 but under \$15,			.	262	8	265	264	18	277		
\$15 but under \$20,			.	185	-	185	201	-	201		
\$20 and over, .	•			60	-	60	67	-	67		
TOTALS, .			١.	2,236	2,548	4,784	2,250	2,529	4,788		

PROPORTION OF BUSINESS DONE.

Proportion of Business Done and		1895	1896	Increase Decrease (-	(十), OR), IN 1896
DAYS IN OPERATION.	i	1890	1990	Proportion and Days	Percent- ages
Average proportion of business done, . Average number of days in operation, .		73.50 299.63	68.25 241.14	5.25 58.49	-7.14 -19.52

CARRIAGES AND WAGONS. 1895, 1896.

ESTABLISHMENTS. PARTNERS. ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED, PARTNERS, ETC.						1895	1896	Increase (+), De- crease (), or No Change (), in 1896		
								Number	Percent-	
Number of establishmen	to :	repor	ting,			143	148	=	-	
Number of private firms	, .					182	182	=	-	
Number of partners,						190	191	+1	+0.58	
Males,					.	186	185	_1	-0.54	
Females,					.	1	1	=	-	
Special,					.	1	1	=		
Estates,			•			2	4	+2	+100.00	
Number of corporations	, .					11	11	=	-	
Number of stockholders	, .				.	166	166	=	-	
Males,					.	104	108	_1	-0.96	
Females,		•			.	59	58	_1	-1.69	
Banks, trustees, etc.	, .	•	•		.	8	6	+2	+66.67	
Aggregates : partners an	d s	tockh	olde	rs,	.	356	857	+1	+0.28	

CAPITAL INVESTED.

CAPITAL INVESTED.	1895	1896	Increase (+), or Decrease (+), in 1896		
CAPITAL INVESTED.	1990	1890	Amount	Percent- age	
Amount of capital invested,	\$2,416,494	\$2,362,896	\$53,598	-2.22	

STOCK USED. AGGREGATE VALUES.

0 V		1000	Increase (+), or Decrease (-), in 1896		
STOCK USED.	1895	1896	Amount	Percent-	
Total value of stock used,	\$1,813,499	\$1,664,385	\$149,114	-8.22	

GOODS MADE. AGGREGATE VALUES.

Goods Wilder	1895	1894	Increase (+), or Decrease (-), in 1896			
Goods Made.	1999	1855	Amount	Percent- age		
Total value of goods made and work done, .	\$4,047,680	\$3,788,846	—\$259,334	-6.41		

CARRIAGES AND WAGONS — 1895, 1896 — Continued. PERSONS EMPLOYED.

Dwnso						1895	1896	INCREASE (+), OR DECREASE (-), IN 1896		
Persons Employed.						1999	1550	Number	Percent- ages	
Average number,							2,178	1,972	-201	-9.25
Smallest number,						.	1,616	1,481	-135	-8.85
Greatest number,							2,677	2,503	-174	6.50
Excess of greatest	over	sma	llest	num	ber,		1,061	1,022	39	3.68

PERSONS EMPLOYED: BY MONTHS.

	.,		_				1895	•	1896			
	AI	HTKO	8.			Males	Females	Totals	Males	Females	Totals	
January,						2,116	20	2,136	2,047	20	2,067	
February,					.	2,206	22	2,228	2,116	22	2,138	
March,					.]	2,356	24	2,380	2,209	20	2,229	
April, .					.	2,470	23	2,493	2,831	22	2,353	
May, .					.	2,507	18	2,525	2,368	22	2,390	
June, .					.	2,426	19	2,445	2,252	19	2,271	
July, .				•	.	2,011	13	2,024	1,820	12	1,832	
August,					.	1,936	10	1,946	1,686	11	1,697	
September	, .					1,906	. 11	1,917	1,599	8	1,607	
October,					.	1,915	11	1,926	1,590	9	1,599	
November,						1,936	9	1,945	1,626	10	1,636	
December,	•					1,979	14	1,993	1,695	13	1,708	
During the	en	tire j	ear,	٠.		219	2	221	148	- 1	148	

^{* 25} establishments in 1895; 21 establishments in 1896.

WAGES AND EARNINGS.

W. one E. a.	••••	_			1895	1896	Increase Decrease ((十), OR ·), IN 1896
WAGES AND EARS	Wages and Earnings.						Amounts	Percent- ages
Total amount paid in wages, Average yearly earnings,					\$1,261,459 580.51	\$1,140,027 578.11	-\$121,432 -2.40	-9.63 -0.41

CARRIAGES AND WAGONS — 1895, 1896 — Concluded. CLASSIFIED WEEKLY WAGES.

CLASSIPICATI	02(OF.			1895		1896			
WREELY W				Males	Females	Totals	Males	Females	Totals	
Under \$5,				29	2	81	44	8	47	
\$5 but under \$6,				86	5	41	27	5	32	
\$6 but under \$7,				81	3	84	57	4	61	
\$7 but under \$8,			.	80	9	89	108	5	108	
\$8 but under \$9,				108	1 1	104	84	2	86	
\$9 but under \$10,			.	267	2	269	264	4	268	
\$10 but under \$12,			.	498	2	500	424	-	424	
\$12 but under \$15,			.	885	-	885	752	1	758	
\$15 but under \$20,				600	1	601	599	-	599	
\$20 and over, .				91	-	91	62	-	62	
TOTALS, .				2,670	25	2,695	2,416	24	2,440	

PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND	1005	1896	Increase Decrease (-	(十), or -), in 1896	
DAYS IN OPERATION.	1895	1390	Proportion and Days	Percent-	
Average proportion of business done, Average number of days in operation,	60.23	56.43 278.03	-3.80 -10.87	-6.31 -3.76	

CLOTHING. 1895, 1896. ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF					ONSI	DERE	D,	1895	1896	Increase Crease No Change ((—). or
	PAR	TXE	RS, K	TC.			i			Number	Percent-
Number of est	ablis	hme	nts r	epor	ting,		. !	130	180	=	-
Number of pri	vate	Arm	6, .				.	110	109	-1	-0.91
Number of par	tner	8,					.	202	196	_6	-2.97
Males, .							. 1	199	191	8	-4.02
Females,							.	1	2	+1	+100.00
Special,							.	2	2	=	-
Estates,								-	1	+1	-
Number of cor	pora	tion	8, .				• !	20	21	+1	+5.00
Number of sto	ekho:	lder	8, .				. '	398	407	+9	+2.26
Males, .							.!	271	293	+22	+8.12
Females,							. '	106	103	_3	-2.83
Banks, tru	rtees	, etc	٠, .				. '	21	11	-10	-47.62
Aggregates : p	artne	ers a	nd st	tocki	olde	rs,	• 1	600	603	+3	+0.50

CLOTHING — 1895, 1896 — Continued. CAPITAL INVESTED.

	1005	1000	Increase (+), or Decrease (-), in 1896		
CAPITAL INVESTED.	1895	1896	Amount	Percent- age	
Amount of capital invested,	\$4,346,666	\$4,054,647	-\$29 2,019	-6.72	

STOCK USED. AGGREGATE VALUES.

STOCE USED.	1005		Increase Decrease (—	(+), or), in 1896
STOCK USED.	1895 1896		Amount	Percent- age
Total value of stock used,	\$11,131,226	\$9,646,549	-\$1,484,677	-13.34

GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1895	1896	Increase (+), or Decrease (+), in 1896		
GOODS MADE,	1990	1986	Amount	Percent- age	
Total value of goods made and work done, .	\$18,766,275	\$16,652,997	-\$2,113,27 8	-11.26	

PERSONS EMPLOYED.

	1						1895	1896	Increase (+), or Decrease (-), in 1896		
PERSO	PERSONS EMPLOYED.						1590	1990	Number	Percent- ages	
Average number,							7,231	6,936	295	-4.08	
Smallest number,						.	5,547	5,167	380	-6.85	
Greatest number,							8,518	8,350	—163	-1.91	
Excess of greatest	over	sma	llest	num	ber,		2,966	3,163	+217	+7.32	

PERSONS EMPLOYED: BY MONTHS.

							1895		1896				
	М	NTRE	3.			Males	Females	Totals	Males	Females	Totals		
January,				•		2,181	4,706	6,887	2,041	4,908	6,949		
February,					.	2,256	4,979	7,285	2,083	5,226	7,309		
March,					.	2,253	5,877	7,680	2,048	5,833	7,381		
April,					.	2,220	5,286	7,506	2,029	5,267	7,296		
May, .					.	2,198	5,283	7,431	1,980	5,909	7,189		
June, .					.	2,207	5,016	7,223	1,944	4,918	6,862		

CLOTHING - 1895, 1896 - Concluded.

PERSONS EMPLOYED: BY MONTHS - Concluded.

						1895		1896			
	М	HTK	8.		Males	Females	Totals	Males	Females	Totals	
July, .					2,210	4,048	6,258	1,896	3,942	5,888	
August,				.	2,278	4,406	6,684	1,951	4,268	6,214	
September,					2,302	5,000	7,302	1,990	5,034	7,024	
October,				.	2,368	5,365	7,788	2,009	5,263	7,272	
November,				.	2,375	5,159	7,584	2,008	5,018	7,026	
December,					2,350	4,959	7,300	1,925	4,912	6,837	
During the	eni	tire v	ear.	.	409	292	701	352	442	794	

^{* 28} establishments in 1895; 26 establishments in 1896.

WAGES AND EARNINGS.

		1000	Increase Decrease (—	(十), or), in 1896
Wages and Earnings.	1895	1896	Amounts	Percent-
Total amount paid in wages,	\$2,868,300 895.98	\$2,550,241 367.68	-\$313,059 -28.30	-10.93 -7.15

CLASSIFIED WEEKLY WAGES.

Classificat	ion () T			1895		1896			
WERELY V				Males	Females	Totals	Males	Females	Totals	
Under \$5,	•			208	1,809	1,512	139	1,112	1,251	
\$5 but under \$6,			.	122	935	1,057	101	888	989	
\$6 but under \$7,			.	160	1,289	1,449	143	1,088	1,231	
\$7 but under \$8,				198	838	1,081	144	971	1,116	
\$8 but under \$9,			. [169	640	809	177	855	1,032	
\$9 but under \$10,				218	442	660	237	520	757	
\$10 but under \$12,				310	337	647	380	831	661	
\$12 but under \$15,				425	160	585	870	157	527	
\$15 but under \$20,				401	43	444	872	48	420	
\$20 and over, .		٠		322	7	329	308	9	312	
TOTALS, .				2,523	6,000	8,523	2,816	5,979	8,295	

PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND	1995	1896	Increase Decrease ((+), or), in 1896
DAYS IN OPERATION.	1993	1890	Proportion and Days	Percent-
Average proportion of business done, Average number of days in operation,	64.08 290.25	59.94 278.18	-4.09 -12.12	-6.39 -4.18

COTTON GOODS. 1895, 1896.

ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISH			onsii	DERE	D,	1895	1896	Increase (+), De- crease (-), or No Charge (-), in 1896		
Partner	8, E	TC.						Number	Percent-	
Number of establishme	nts 1	epor	ting,	•		169	169	=	-	
Number of private firm	١, .					84	84	=	-	
Number of partners,						62	62	_	_	
Males,						51	53	+2	+8.92	
Females,					.	7	7	<u> </u>	-	
Estates,			•			4	2	-2	50.00	
Number of corporations	١, .	•				135	135	=	-	
Number of stockholder	8, .				.	21,989	22,281	+342	+1.56	
Males,					.	10,722	10,908	+186	+1.73	
Females,					.	8,210	8,446	+286	+2.87	
Banks, trustees, etc	., .					8,007	2,927	80	-2.66	
Aggregates : partners a	nd s	tocki	holde	rs,	$\cdot $	22,001	22,348	+342	+1.55	

CAPITAL INVESTED.

Capital Invested.	1007	1000	Increase ((+), or), in 1896
CAFITAL INVESTED.	1895	1896	Amount	Percent-
Amount of capital invested,	\$116,141,614	\$112,902,817	-\$3,238,797	-2.79

STOCK USED. AGGREGATE VALUES.

STOCE USED.	1895	1896	INCREASE (+), OR DECREASE (-), IN 189		
STOCK COED.	1990	1000	Amount	Percent- age	
Total value of stock used,	\$4 6, 244,48 5	\$50,297,985	+04,068,550	+8.77	

GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1895	1896	Increase (+), or Decrease (-), in 1886		
GOODS BLADS.	1990	1350	Amount	Percent-	
Total value of goods made and work done, .	\$89,615,751	\$87,146,004	-42,469,747	-2.76	

COTTON GOODS — 1895, 1896 — Continued. PERSONS EMPLOYED.

Dunne							1007		Increase (+), or Decrease (-), in 1896	
PERSO	78 E	мри	YED.				1595	1896	Number	Percent-
Average number,							79,795	78,068	_1,787	-2.18
Smallest number,						.	78,778	66,044	-7,784	-10.48
Greatest number,						.	83,545	86,494	+2,949	+8.58
Excess of greatest	over	sma	llest	num	ber,	.	9,767	20,450	+10,683	+109.88

PERSONS EMPLOYED: BY MONTHS.

			_				1895		1896			
	M	HTKC	3.			Males	Females	Totals	Males	Females	Totals	
January,						89,197	40,820	80,017	40,823	41,182	82,005	
February,						39,246	40,827	80,078	40,864	41,195	82,059	
March,					.	39,550	40,863	80,418	40,909	41,291	82,200	
April, .						89,368	40,938	80,801	40,846	40,644	80,990	
May, .					.	39,282	41,019	80,301	89,964	40,859	80,828	
June, .						39,389	40,897	80,086	89,586	39,769	79,355	
July, .					.	38,619	89,713	78,332	87,592	37,094	74,686	
August,					.	88,288	89,462	77,750	33,670	88,026	66,696	
September	,.				.	89,178	40,244	79,422	85,786	85,519	71,255	
October,					.]	39,124	40,298	79,417	38,921	89,020	77,941	
November	, .					89,761	40,958	80,714	39,567	89,663	79,280	
December,						39,785	40,986	80,771	40,882	40,559	80,891	
During the	en	tire y	ear,	٠.		8,358	7,881	16,239	4,642	4,278	8,918	

^{• 29} establishments in 1895; 17 establishments in 1896.

WAGES AND EARNINGS.

				1896	Increase (-	(十), or), in 1896
WAGES AND EARNINGS.			1995	1994	Amounts	Percent- ages
Total amount paid in wages,		•	\$25,284,125 828.77	\$25,965,194 331.36		-1.41 +0.79

${\tt COTTON~GOOD8-1895,~1896-Concluded.}$

CLASSIFIED WEEKLY WAGES.

CLASSIFICATI	on o	o P			1895		1896			
WEEKLY W				Males	Females	Totals	Males	Females	Totals	
Under \$5,				7,560	12,206	19,766	7,799	12,485	20,284	
\$5 but under \$6,		•		4,927	8,806	13,783	5,050	8,865	13,915	
\$6 but under \$7,				6,875	8,265	15,140	7,279	8,870	15,649	
\$7 but under \$8,				5,269	6,409	11,678	5,526	6,806	12,832	
\$8 but under \$9,				4,928	4,834	9,262	5,156	4,674	9,830	
\$9 but under \$10,			.	8,520	1,648	5,168	8,514	1,499	5,013	
\$10 but under \$12,			.	4,236	596	4,832	4,338	574	4,912	
\$12 but under \$15,				2,227	63	2,290	2,300	51	2,351	
\$15 but under \$20,				1,038	8	1,041	1,083	1 1	1,034	
\$20 and over, .				614	-	614	649	-	649	
TOTALS, .				41,194	42,830	83,524	42,644	43,325	85,969	

PROPORTION OF BUSINESS DONE.

Proportion of Business Done and	1895	1896	Increase Decrease (-	(十), or -), ix 1896
DAYS IN OPERATION.	1993	1950	Proportion and Days	Percent-
Average proportion of business done, Average number of days in operation,	87.22 297.86	77.83 279.58	-9.89 -17.83	-11.34 -6.00

FOOD PREPARATIONS. 1895, 1896. ESTABLISHMENTS, PARTNERS, ETC.

Number of					ONSI	DERE	D,	1895	1896	Increase crease No Change (Increase (+), De- crease (), or No Change (=-), in 1896		
Partners, etc.										Number	Percent- ages		
Number of es	tabili	hme	nts	repor	ting,			319	819	∥ =	-		
Number of pr	ivate	firm	s, .					278	278	_5	-1.80		
Number of pa	rtner	۳,					.	403	395	_8	-1.99		
Males, .							.	890	382	_8	-2.05		
Females,							.	6	6	=	-		
Special,							.	1	-	_1	100.00		
Estates,		•					.	6	7	+1	+16.67		
Number of co	rpora	tion	8, .					41	46	+5	+12.20		
Number of sto	ckh	lder	8, .				.	678	705	+27	+3.98		
Males, .							.	548	577	+31	+5.68		
Females,							.	110	104	_6	-5.45		
Banks, tru	stoe	s, etc	٠, .	•			-	22	24	+2	+9.09		
Aggregates: 1	artn	ers a	nd s	tocki	olde	rs,	.	1,081	1,100	+19	+1.76		

FOOD PREPARATIONS - 1895, 1896 - Continued.

CAPITAL INVESTED.

CAPITAL INVESTED.	1995	1896	Increase (+), or Decrease (-), in 1896		
CAFILE INVESTED.	1353	1350	Amount	Percent- age	
Amount of capital invested,	\$13,977,217	\$18,687,962	—\$289,2 55	-2.07	

STOCK USED. AGGREGATE VALUES.

STOCE USED.	1895	1996	Increase (+), or Decrease (-), in 1896	
STOCK USED.	1990	1000	Amount	Percent- age
Total value of stock used,	\$32,369,971	\$30,465,871	-\$1,904,100	-5.88

GOODS MADE. AGGREGATE VALUES.

Gana Wan	1005	1000	Increase (+), or Decrease (-), in 1896		
GOODS MADE.	1895	1996	Amount	Percent- age	
Total value of goods made and work done, .	\$41,952,077	\$40,410,983	-\$1,541,094	-3.67	

PERSONS EMPLOYED.

									Increase (+), or Decrease (-), in 1896		
Parso	NS E	MPLO	YED.				1895	1896	Number	Percent- ages	
Average number,		•		•	•		6,784	6,859	+75	+1.11	
Smallest number,						.	5,640	5,719	+79	+1.40	
Greatest number,						.	9,061	8,624	-437	-4.82	
Excess of greatest	over	ema	llest	num	ber,		8,421	2,905	-516	-15.08	

PERSONS EMPLOYED: BY MONTHS.

						1895		1896					
	M	ONTH	3.		Males	Females	Totals	Males	Females	Totals			
January,					5,380	1,698	7,087	5,082	1,768	6,850			
February,				.	5,272	1,707	6,979	5,102	1,824	6,926			
March,					4,676	1,817	6,493	4,625	1,870	6,495			
April, .					4,557	1,783	6,840	4,576	1,869	6,445			
May, .				.	4,574	1,778	6,352	4,767	1,839	6,606			
June, .				.	4,681	1,788	6,469	4,876	1,846	6,722			

FOOD PREPARATIONS — 1895, 1896 — Concluded. PERSONS EMPLOYED: BY MONTHS — Concluded.

Months.							1895			1896		
	Mo	NTH	3.			Males	Females	Totals	Males	Females	Totals	
July, .						4,884	1,840	6,674	4,912	1,842	6,754	
August,						4,708	1,768	6,476	4,834	1,768	6,602	
September,					.	4,808	2,038	6,841	4,921	1,981	6,902	
October,					.	4,957	2,188	7,145	5,027	2,221	7,248	
November,					.]	5,038	2,349	7,887	5,108	2,298	7,396	
December,						4,924	2,192	7,116	5,059	2,173	7,232	
During the	ent	ire y	ear,	٠.		976	144	1,120	891	120	1,011	

^{* 157} establishments in 1895; 138 establishments in 1896.

WAGES AND EARNINGS.

Wages and Earnings.	1895	1896	Increase (+), or Decrease (-), in 1896	
WAGE AND MARIEUG.	1350	1000	Amounts	Percent- ages
Total amount pald in wages,	\$3,042,852 448.58	\$3,105,154 452.71	+ \$62,302 + 4 .18	+2.05 +0.98

CLASSIFIED WEEKLY WAGES.

CLASSIFICAT	on c) P			1895			1896	
WEEKLY W				Males	Females	Totals	Males	Females	Totals
Under \$5,				228	1,472	1,700	808	1,429	1,732
\$5 but under \$6,			.	327	491	818	229	470	009
\$6 but under \$7,			.	410	440	850	393	435	828
\$7 but under \$8,			.	843	124	467	423	114	587
\$8 but under \$9,				904	51	955	977	68	1,045
\$9 but under \$10,			.	1,026	42	1,068	985	33	968
\$10 but under \$12,				1,001	33	1,084	951	27	978
\$12 but under \$15,				1,419	12	1,431	1,413	14	1,427
\$15 but under \$20,			.	660	6	666	609	5	614
\$20 and over, .				174	-	174	178	-	173
TOTALS, .				6,492	2,671	9,163	6,406	2,595	9,001

PROPORTION OF BUSINESS DONE.

Proportion of Business Done and	1995	1896	Increase (+), or Decrease (-), in 1896		
DAYS IN OPERATION.	1993	1920	Proportion and Days	Percent- ages	
Average proportion of business done, Average number of days in operation,	61.46 298.47	60.71 297.42	-0.75 -1.05	1.23 0.85	

FURNITURE. 1895, 1896. ESTABLISHMENTS, PARTNERS, ETC.

Number of Est.					ONSII	ERK	D,	1895	1896	Increase (+), De- crease (-), or No Change (=), in 1896		
Partners, etc.									Number	Percent-		
Number of establi	s bo	oen'	ta r	epor	ting,			119	119	=	-	
Number of private	fir	ms,						108	106	-2	-1.85	
Number of partner	rs, .							178	175	_3	-1.69	
Males,		,					.	166	162	-4	-2.41	
Females, .		,					.	9	9	=	_	
Special, .								1	2	+1	+100.00	
Estates, .				•	•		•	2	2	=	•	
Number of corpor	atic	ns,						11	13	+2	+18.18	
Number of stockh	old	ers,					.	821	319	-2	-0.62	
Males,							.	152	207	+55	+36.18	
Females, .								117	80	-37	—3 1.62	
Banks, trustee	15 , (etc.,					.	52	32	—20	-38.46	
Aggregates : parti	ere	an	d st	tocki	olde	rs,	.	499	494	-5	1.00	

CAPITAL INVESTED.

Capital Invested.	1895	1896	Increase (+), or Decrease (-), in 1896		
CALLED INVESTED.	 1000	1390	Amount	Percent-	
Amount of capital invested,	 \$3,611,891	\$3,470,925	-\$140,966	-8.90	

STOCK USED. AGGREGATE VALUES.

STOCK USED.	1895	1896	Increase (+), or Decrease (-), in 1896	
	1000	1856	Amount	Percent-
Total value of stock used,	\$8,848,539	\$8,172,788	-\$675,751	-17.56

GOODS MADE. AGGREGATE VALUES.

Goods Madr.	1895	1996	Increase (-	(+), or), in 1806
GOUDS MADE.	1899	1000	Amount	Percent-
Total value of goods made and work done, .	\$7,166,132	\$6,100,549	\$1,065,588	-14.87

FURNITURE — 1895, 1896 — Continued. PERSONS EMPLOYED.

Persons Employed.							1895	1896	Increase (+), or Decrease (-), in 1896		
FERSO	NB E	MPLA	YED,				1990	1980	Number	Percent- ages	
Average number,							8,502	8,298	209	-5.97	
Smallest number,		•				.	2,974	2,618	-356	-11.97	
Greatest number,							4,921	8,919	-302	-7.15	
Excess of greatest	over	sma	lest	num	ber,	.	1,247	1,301	+54	+4.33	

PERSONS EMPLOYED: BY MONTHS.

	34		_				1995	 		1806			
	M	HTE	5.			Males	Females	Totals	Males	Females	Totals		
January,						2,916	308	8,219	2,922	275	8,197		
February,				•	.	2,998	316	3,814	3,016	323	8,339		
March,					.	3,099	848	8,442	3,151	328	3,479		
April, .					.	8,082	858	8,440	3,167	335	3,502		
May, .					.	3,165	370	8,535	8,150	364	8,514		
June, .					.	8,100	368	8,468	3,014	879	8,393		
July, .					.	3,021	882	8,353	2,642	291	2,933		
August,						8,021	348	8,369	2,692	841	3,033		
September,						3,233	858	8,591	2,809	348	3,157		
October,					.	8,508	407	8,916	2,962	367	8,329		
November,					.	3,533	407	8,940	2,972	366	8,338		
December,						8,289	868	8,652	2,922	320	8,249		
During the	ent	ire y	ear,	٠.	.	421	88	459	379	34	418		

^{* 32} establishments in 1895; 23 establishments in 1896.

WAGES AND EARNINGS.

Wages and Earnings.				Increase (+), or Decrease (-), in 1896		
WAGES AND LARNINGS,		1895	1895	Amounts	Percent- ages	
Total amount paid in wages, Average yearly earnings,	:	•	\$1,718,187 489.19	\$1,578,746 479.42	-\$184,391 -9.77	-7.84 -2.00

FURNITURE — 1895, 1896 — Concluded. CLASSIFIED WEEKLY WAGES.

CLASSIFICATI	ow c) T			1895		1896			
WEEKLY W				Males	Females	Totals	Males	Females	Totals	
Under \$5,				124	95	219	174	96	270	
\$5 but under \$6,			.	144	74	218	129	64	198	
\$6 but under \$7,			- 1	152	90	242	169	77	246	
\$7 but under \$8,				381	94	425	844	117	461	
\$8 but under \$9,			.	400	40	440	815	85	350	
\$9 but under \$10,			.	582	82	614	478	18	486	
\$10 but under \$12,				608	10	618	589	12	601	
\$12 but under \$15,			.	794	6	800	712	6	718	
\$15 but under \$20,			.	556	1	557	502	- 1	502	
\$20 and over, .				91	-	91	94	-	94	
TOTALS, .				3,782	442	4,224	8,501	420	8,921	

PROPORTION OF BUSINESS DONE.

Proportion of Business Done and	1005	1000	Increase Decrease (-	(+), or -), in 1896
DAYS IN OPERATION.	1895	1896	Proportion and Days	Percent-
Average proportion of business done, Average number of days in operation,	58.13 291.97	55.29 288.17	-2.84 -3.80	-4.89 -1.30

HOSIERY AND KNIT GOODS. 1895, 1896.

ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABL				NSII	FRE	D,	1895	1895	II CREASE	Increase (+), De- crease (-), or No Change (=), in 1896		
Partners, etc.									Number	Percent-		
Number of establish:	nent	в гер	orti	ng,	•		42	42	=	-		
Number of private fir	ms,		,				25	25	=	-		
Number of partners,			i			.	44	46	+2	+4.55		
Males,						.	41	42	+1	+2.44		
Females, .						.]	2	4	+2	+100.00		
Special, .							1	-	_1	-100.00		
Number of corporation	ons, .						17	17	· =	-		
Number of stockhold	ers, .					.	1,330	1,805	-25	-1.88		
Males,							643	646	+3	+0.47		
Females,						. }	435	408	-27	-6.21		
Banks, trustees, e	tc., .	٠.					252	251	-1	-0.40		
Aggregates : partners	and	stoc	kho	lder	ns,	. i	1,874	1,861	—23	-1.67		

HOSIERY AND KNIT GOODS—1895, 1896—Continued. CAPITAL INVESTED.

Communication of the Communica	100	1000	Increase (+), or Decrease (-), in 1896	
CAPITAL INVESTED.	1895 1896		Amount	Percent- age
Amount of capital invested,	\$4,477,439	\$4,208,270	—\$269,169	-6.01

STOCK USED. AGGREGATE VALUES.

STOCK USED.	1895	1896	INCREASE (+). OR DECREASE (-), IN 1800	
STOCK USED.	1353		Amount	Percent- age
Total value of stock used,	\$3, 376,271	\$2,406,106	—\$9 70,165	-28.78

GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1895	1896	Increase Decrease (—	+), or), is 1896
GOODS SLADE.	1993	1050	Amount	Percent- age
Total value of goods made and work done, .	\$ 6,435,901	\$5,014,755	\$1,421,146	-22.08

PERSONS EMPLOYED.

Persons Employe			1895	1896	Increase Decrease (-	INCREASE (+), OR DECREASE (-), IN 1896		
TERSONS EMPLOIRE	,. 		1899	1990	Number	Percent-		
Average number,			5,605	5,646	+41	+0.73		
Smallest number,			4,774	4,523	-251	-5.26		
Greatest number,			6,360	6,456	+96	+1.51		
Excess of greatest over smalles	num	ber,	1,586	1,933	+347	+21.88		

PERSONS EMPLOYED: BY MONTHS.

						1895			1896	
	M	ONTH	6.		Males	Females	Totals	Males	Females	Totals
January,			•		1,810	3,575	5,385	1,881	4,115	5,996
February,				. !	1,794	3,611	5,405	1,867	4,050	5,917
March,				. !	1,807	3,598	5,405	1,846	4,093	5,929
April, .				.!	1,887	3,564	5,451	1,741	4,022	5,763
Мау, .				. 1	1,881	3,594	5,475	1,778	4,022	5,795
June, .				.	1,897	3,673	5,570	1,725	3,893	5,618

HOSIERY AND KNIT GOODS — 1895, 1896 — Concluded. PERSONS EMPLOYED: BY MONTHS — Concluded.

					1895			1896				
Mon	TH	3.		Males	Females	Totals	Males	Females	Totals			
July,				1,878	3,493	5,371	1,642	3,755	5,397			
August, .			.	1,959	3,653	5,612	1,557	3,422	4,979			
September, .				1,928	3,731	5,659	1,690	3,312	5,002			
October, .				1,967	3,965	5,932	1,770	3,831	5,601			
November, .			.	1,982	4,083	6,065	1,830	8,964	5,794			
December, .				1,952	8,964	5,916	1,795	3,889	5,684			
During the entir	re y	ear,	.	17	54	71	5	10	15			

^{*} Four establishments in 1895; two establishments in 1896.

WAGES AND EARNINGS.

WAGES AND EARNINGS.		1895	1896	Increase Decrease (-	(+), or), in 1896
WAGES AND EARNINGS.	1949	1990	Amounts	Percent- ages	
Total amount paid in wages, Average yearly earnings,		\$1,863,085 332.40	\$1,718,096 304.30	-\$144,989 -28.10	-7.78 -8.45

CLASSIFIED WEEKLY WAGES.

CLASSIFICATI	OM () 7			1895	1	1896			
WEEKLY W		-		Males	Females	Totals	Males	Females	Totals	
Under \$5,				526	1,422	1,948	389	1,860	2,249	
\$5 but under \$6,				220	806	1,026	163	874	1,087	
\$6 but under \$7,				401	720	1,121	351	719	1,070	
\$7 but under \$8,				267	580	847	225	530	• 755	
\$8 but under \$9,			.	229	285	514	166	276	442	
\$9 but under \$10,			.	195	139	334	150	122	272	
\$10 but under \$12,			.	298	61	359	223	81	304	
\$12 but under \$15,			.	188	19	207	155	22	177	
\$15 but under \$20,				82	1 1	83	98	4	102	
\$20 and over, .				57	-	57	45	-	45	
TOTALS, .				2,463	4,033	6,496	1,965	4,488	6,453	

PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND	D		100	1000	Increase Decrease (-	(+), or), in 1896
Days in Operation,		1895	1896	Proportion and Days	Percent- ages	
Average proportion of business done, Average number of days in operation,		•	62.86 298.15	57.26 287.78	-5.60 -10.37	-8.91 -3.48

LEATHER. 1895, 1896.

ESTABLISHMENTS. PARTNERS. ETC.

NUMBER OF E	-				IIBKO	ERR	D,	1895	1894	Increase (+), De- crease (-), or No Change (-), in 1890		
	PAR	TNERS	, E	rc.				2,500		Number	Percent-	
Number of esta	blis	hmen	to r	epor	ting,	•		148	143	=	-	
Number of priv	ate	firms	, .					124	123	-1	-0.81	
Number of par	ner	6,					.	221	221	=	_	
Males, .		•					.	215	217	+2	+0.93	
Females,								1	1	=	-	
Special,							.	8	3	=	-	
Estates,						•	.	2	-	—2	-100.00	
Number of cor	por	tions	, .					19	20	+1	+5.26	
Number of stoo	kho	lders	, .					272	289	+17	+6.25	
Males, .						•		207	201	-6	-2.90	
Females,								55	71	+16	+29.09	
Banks, trus	tee	s, etc.	, .					10	17	+7	+70.00	
Aggregates : ps	urtn	ers an	d s	tocki	olde	rs,		493	510	+17	+3.45	

CAPITAL INVESTED.

Capital Invested.	1895	1896	INCREASE (-	(+), or), in 1896
CAPITAL INVESTED.	1850	1920	Amount	Percent- age
Amount of capital invested,	\$8,479,094	\$7,329,970	-\$1,149,124	—13.55

STOCK USED. AGGREGATE VALUES.

A W	1895	1000	INCREASE (-	(+), or), in 1896
STOCK USED.	1999	1896	Amount	Percent-
Total value of stock used,	\$15,746,203	\$13,127,769	-\$2,618,434	—16.63

GOODS MADE. AGGREGATE VALUES.

G W	1005	1000	Increase (+), or Decrease (-), in 1896		
Goods Made.	1995	1896	Amount	Percent-	
Total value of goods made and work done, .	\$22,379,841	\$19,041,544	-\$3,338,297	-14.92	

LEATHER — 1895, 1896 — Continued. PERSONS EMPLOYED.

Dunes	PERSONS EMPLOYED. 1805				1896	INCREASE (+), OR DECREASE (-), IN 1896				
T EASO	NO E	AFIC	71 E.D.				1000	1856	Number	Percent- ages
Average number,							7,168	6,847	821	-11.45
Smallest number,	•						5,737	5,018	—719	-12.58
Greatest number,						• '	8,502	8,046	-456	-5.36
Excess of greatest	over	sma	llest	num	ber,	- 1	2,765	8,028	+263	+9.51

PERSONS EMPLOYED: BY MONTHS.

							1895			1896	
	.M.	ONTH	5.			Males	Females	Totals	Males	Females	Totals
January,						6,637	278	6,910	6,489	292	6,781
February,					.	6,647	271	6,918	6,432	278	6,710
March,					.	6,546	266	6,812	6,264	256	6,520
April, .					.	6,655	269	6,924	6,220	262	6,482
May, .					.	6,859	271	7,130	6,167	261	6,428
June, .					.	7,099	268	7,367	6,126	246	6,872
July, .						7,170	259	7,429	6,081	233	6,264
August,					.	7,851	258	7,609	5,999	247	6,246
September					.	7,398	282	7,675	5,696	260	5,956
October,					.	7,007	287	7,294	5,547	254	5,801
November	, .					6,674	292	6,966	5,878	264	6,137
December,				•		6,608	292	£,895	6,100	281	6,381
During the	en	tire y	ear,	٠.		586	21	607	173	-	178

^{* 21} establishments in 1895; 12 establishments in 1896.

WAGES AND EARNINGS.

WACHE AND PARKING	Wages and Earnings.					Increase Decrease (—	(+), or), in 1896
WAGES AND EARSING				1895	1896	Amounts	Percent- ages
Total amount paid in wages, . Average yearly earnings,	:	:		\$3,448,203 481.06	\$2,984,515 470.22	\$463,688 10.84	—13.45 —2.25

LEATHER — 1895, 1896 — Concluded. CLASSIFIED WEEKLY WAGES.

CLASSIFICAT	ion (1995		1896			
WREELY W				Males	Females	Totals	Males	Females	Totals	
Under \$5,				189	78	267	196	78	274	
\$5 but under \$6,			- [155	49	204	216	50	266	
\$6 but under \$7,			- 1	419	69	488	415	58	473	
\$7 but under \$8,			.	651	48	699	639	68	702	
\$8 but under \$9,				957	60	1,017	861	28	889	
\$9 but under \$10,				1,891	28	1,914	1,799	10	1,809	
\$10 but under \$12,				2,177	2	2,179	1,890	13	1,903	
\$12 but under \$15,			.	1,080	8	1,088	1,046	2	1,048	
\$15 but under \$20,				580	2	582	472	- '	472	
\$20 and over, .				123	-	123	125	_ 1	125	
TOTALS, .				8,222	884	8,556	7,659	302	7,961	

PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND	1895	1000	Increase (+), or Decrease (-), in 1896		
DAYS IN OPERATION.	1999	1896	Proportion and Days	Percent- ages	
Average proportion of business done, Average number of days in operation,	66.51 294.73	58.35 286.13	-8.16 -8.60	-12.27 -2.92	

MACHINES AND MACHINERY. 1895, 1896. ESTABLISHMENTS, PARTNERS, ETC.

	Number of Establishments Considered,								Increase (+), De- crease (-), or No Change (=), in 1896		
PARTNERS, ETC.									Number	Percent-	
Number of establish	ment	5 T	epor	ting,	•		871	871	=	-	
Number of private fi	rms,						246	241	5	-2.03	
Number of partners,							369	359	-10	-2.71	
Males,						.	858	338	—15	-4.25	
Females, .							11	12	+1	+9.09	
Special, .						.	1	-	_1	-100.00	
Estates, .		•	•				4	9	+5	+125.00	
Number of corporation	ons,	•					125	130	+5	+4.00	
Number of stockhold	ers,						4,105	4,256	+151	+3.68	
Males,						.	2,727	2,743	+16	+0.59	
Females, .							1,111	1,190	+79	+7.11	
Banks, trustees,	etc.,					.	267	323	+56	+20.97	
Aggregates : partner	s and	st	ockh	olde	rs,	.	4,474	4,615	+141	+3.15	

MACHINES AND MACHINERY - 1895, 1896 - Continued. CAPITAL INVESTED.

	1005		Increase (+), or Decrease (-), in 1896	
CAPITAL INVESTED.	1895	1896	Amount	Percent-
Amount of capital invested,	\$23,167,426	\$23,733,634	+\$566,208	+2.44

STOCK USED. AGGREGATE VALUES.

One on House	1007	1000	Increase (+), or Decrease (-), in 1896	
STOCK USED.	1895	1896	Amount	Percent-
Total value of stock used,	\$9,981,227	\$10,850,98 8	+\$419,711	+4.28

GOODS MADE. AGGREGATE VALUES.

Goods Made.		1806	Increase (+), or Decrease (-), in 1896		
GOUDS MADE.	1895	1000	Amount	Percent- age	
Total value of goods made and work done, .	\$26,027,029	\$28,489,920	+\$2,462,891	+9.46	

PERSONS EMPLOYED.

Dance							1895		Increase (+), or Decrease (-), in 1896		
. PERSO	Persons Employed.						1850	1896	Number	Percent- ages	
Average number,		•	•	•	•		16,983	18,082	+1,149	+6.79	
Smallest number,						.	18,449	14,259	+810	+6.02	
Greatest number,						.	20,228	21,348	+1,120	+5.54	
Excess of greatest	OVOL	sma	llest	num	ber,	. 1	6,779	7,089	+310	+4.57	

PERSONS EMPLOYED: BY MONTHS.

Months.							1895		1896			
	.04.4	ONTH	9.			Males	Females	Totals	Males	Females	Totals	
January,				•		15,163	826	15,489	18,772	412	19,184	
February,					.	15,184	825	15,509	18,788	386	19,174	
March,						15,159	293	15,452	18,810	397	19,207	
April, .						14,663	316	14,969	17,845	884	18,229	
May, .						15,425	828	15,758	17,817	310	18,127	
June, .					.	16,156	817	16,478	17,572	822	17,894	

During the entire year,* .

MACHINES AND MACHINERY — 1895, 1896 — Concluded. PERSONS EMPLOYED: BY MONTHS — Concluded.

1896 1205 MONTHS. Males Females Totals Males Females Totals 17.151 17.788 July, . 16.841 **3**10 17.480 306 17.461 311 17,772 17,217 200 17.517 August, 18,043 331 18,374 16,868 17,169 September,. 301 18.268 18.612 17.094 17,422 October. . 844 328 November. . 18.881 381 18,762 17.029 386 17,865 December. . 18,247 400 18,647 17,194 354 17.478

708

1.033

1.035

604

WAGES AND EARNINGS.

Wages and Earnings.	1895	1896	Increase (+), or Decrease (-), in 1806	
WAGES AND EARINGS.		1996	Amounts	Percent- ages
Total amount paid in wages,	\$9,072,876 585.81	\$9,781,509 588.19	+\$658,633 +2.38	+7.26 +0.44

CLASSIFIED WEEKLY WAGES.

CLASSIFICAT	iox () P			1895		1896			
WREELY WAGE.				Males	Females	Totals	Males	Females	Totals	
Under \$5,	•			915	66	981	1,098	86	1,184	
\$5 but under \$6,			.	883	108	991	826	87	913	
\$6 but under \$7,			. [1,229	132	1,361	1,192	117	1,309	
\$7 but under \$8,			.	1,920	40	1,960	1,857	46	1,908	
\$8 but under \$9,			.	1,864	35	1,899	1,847	46	1,893	
\$9 but under \$10,				2,426	28	2,454	2,664	29	2,693	
\$10 but under \$12,			.	2,869	12	2,881	2,973	16	2,988	
\$12 but under \$15,			.	4,201	4	4,205	4,443	4	4,446	
\$15 but under \$20,			.	2,800	1	2,801	3,084	2	3,086	
\$20 and over, .			•	667	1	668	694	-	694	
Totals, .				19,774	427	20,201	20,677	432	21,109	

PROPORTION OF BUSINESS DONE.

1007	1000	Increase (+), or Decrease (-), in 1896		
1993	1929	Proportion and Days	Percent- ages	
59.08 297.55	56.78 292.16	2.30 5.39	-3.89 -1.81	
	1	59.08 56.78	1995 1896 Proportion and Days 59.08 56.78 —2.30	

^{* 68} establishments in 1895; 54 establishments in 1896.

METALS AND METALLIC GOODS. 1895, 1896.

ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISE			ONSII) KRK	D,	1895	1896	Increase (+), De- crease (), or No Change (), in 1896		
Partners, etc.								Number	Percent- ages	
Number of establishmen	ite 1	герог	ting,			382	382	_	-	
Number of private firms	,.					280	275	-5	-1.79	
Number of partners,						421	405	16	-8.80	
Males,						406	386	-20	-4.93	
Females,					.]	7	10	+3	+42.86	
Special,					.	8	2	_1	-33.38	
Estates,					.	5	7	+2	+40.00	
Number of corporations	, .					102	107	+5	+4.90	
Number of stockholders	, .					2,089	2,125	+86	+1.72	
Males,					·i	1,381	1,868	+22	+1.65	
Females,						599	597	_2	-0.33	
Banks, trustees, etc.	, .				-	159	175	+16	+10.06	
Aggregates : partners a	d s	tocki	olde	rs,		2,510	2,530	+20	+0.80	

CAPITAL INVESTED.

Control Investor				1895	1896	Increase (+), or Decrease (-), in 1896	
Capital Invested.				1899	1090	Amount	Percent-
Amount of capital invested, .			•	\$ 19,177, 94 0	\$17,688,004	-\$1,544,936	-8.06

STOCK USED. AGGREGATE VALUES.

9	1895		Increase (+), or Decrease (-), in 1896		
STOCK USED.		1896	Amount	Percent- age	
Total value of stock used,	\$11,021,656	\$10,626,829	\$395,327	-8.59	

GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1895	1896	Increase (十), or Decrease (一), in 1896		
GOODS MADS.	1650	1990	Amount	Percent- age	
Total value of goods made and work done, .	\$24,484,118	\$23,472,816	-\$1,011,802	-4.18	

METALS AND METALLIC GOODS — 1895, 1896 — Continued. PERSONS EMPLOYED.

	Persons Employed. 1895 1894								Increase (+), or Decrease (-), in 1800		
PERSO	NS E	MPLC	YED.				1595	1996	Number	Percent-	
Average number,							14,694	14,942	-452	-3.06	
Smallest number,							12,128	11,740	388	-8.20	
Greatest number,							17,138	16,585	608	-8.52	
Excess of greatest	over	sma	llest	num	ber,	.	5,010	4,795	-215	-4.29	

PERSONS EMPLOYED: BY MONTHS.

				ļ		1895	İ		1896	
	Mon	rhs	•		Males	Females	Totals	Males	Females	Totals
January,					12,602	1,427	14,029	18,187	1,578	14,765
February,				- !	12,507	1,455	13,962	13,222	1,562	14,784
March,					12,573	1,561	14,134	13,016	1,574	14,590
April, .				.	12,628	1,592	14,220	12,969	1,546	14,515
May, .				.	12,968	1,585	14,548	13,045	1,539	14,584
June, .				.	13,042	1,562	14,604	12,806	1,461	14,267
July, .				. 1	12,478	1,475	13,948	12,159	1,442	18,601
August,				.	13,205	1,529	14,734	12,189	1,832	13,521
September	,•			.	13,582	1,541	15,128	12,267	1,365	13,632
October,				.	14,089	1,666	15,705	12,595	1,420	14,015
November,				.	13,986	1,663	15,649	12,706	1,465	14,171
December,					13,817	1,689	15,506	12,527	1,468	13,990
During the	entir	e y	ear,		962	97	1,059	1,132	171	1,305

^{* 78} establishments in 1895; 78 establishments in 1896.

WAGES AND EARNINGS.

WAGES AND EARNINGS.		1895	1896	Increase (+), or Decrease (), in 1800	
WAGES AND EARNINGS.			1990	Amounts	Percent- ages
Total amount paid in wages, Average yearly earnings,	•	\$7,479,648 509.08	\$7,218,118 506.82	\$261,525 2.21	-3.50 -0.43

METALS AND METALLIC GOODS — 1895, 1896 — Concluded. CLASSIFIED WEEKLY WAGES.

CLASSIFICA	PION				1895			1896			
WEEKLY				Males	Females	Totals	Males	Females	Totals		
Under \$5,				1,015	490	1,506	887	511	1,398		
\$5 but under \$6	, ,			633	512·	1,145	645	501	1,146		
\$6 but under \$7				1,052	846	1,398	971	364	1,335		
\$7 but under \$8			.	1,115	183	1,298	1,157	148	1,805		
\$8 but under \$6				1,088	101	1,184	1,084	69	1,108		
\$9 but under \$10			.	2,075	55	2,180	2,120	48	2,168		
\$10 but under \$15				2,260	46	2,306	2,124	44	2,168		
\$12 but under \$16			.	2,937	17	2,954	2,788	7	2,795		
\$15 but under \$20				2,298	5	2,308	2,890	2	2,892		
\$20 and over, .	٠,			828	4	832	674	- 1	674		
TOTALS, .				15,246	1,759	17,006	14,790	1,694	16,484		

PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND			Increase (+), or Decrease (-), in 1896		
DAYS IN OPERATION.	1895	1896	Proportion and Days	Percent- ages	
Average proportion of business done, Average number of days in operation,	61.90 284.14	59.10 278.79	-2.80 -5.85	-4.52 -1.88	

MUSICAL INSTRUMENTS AND MATERIALS. 1895, 1896.

ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISH			NSID	ERE	D,	1895	1896	Increase (+), De- crease (-), or No Change (-), in 1896		
Partners	, E	rc.						Number	Percent-	
Number of establishmen	ts r	eport	ing,			65	65	=	-	
Number of private firms,						46	45	-1	-2.17	
Number of partners,					.	67	67	_	-	
Males,					.	67	64	-3	-4.48	
Females,						-	1	+1	-	
Estates,		•				-	2	+2	-	
Number of corporations,						19	20	+1	+5.20	
Number of stockholders	, .					134	143	+0	+6.72	
Males,						109	112	+8	+2.7	
Females,						20	23	+8	+15.00	
Banks, trustees, etc.,	, .				.	5	8	+8	+60.00	
Aggregates : partners an	d s	tockh	olde	rs,		201	210	+9	+4.4	

MUSICAL INSTRUMENTS AND MATERIALS — 1895, 1896 — Continued.

CAPITAL INVESTED.

	100-	1000	Increase (+), or Decrease (-), in 1896	
CAPITAL INVESTED.	1895	1896	Amount	Percent- age
Amount of capital invested,	\$8,595,386	\$8,192,496	-\$402,840	-11.20

STOCK USED. AGGREGATE VALUES.

Secon Very	1895	1896	Increase (+), or Decrease (-), in 1896	
STOCK USED.	1949	1980	Amount	Percent- age
Total value of stock used,	\$1,611,842	\$1,288,400	-\$323,442	—20. 07

GOODS MADE. AGGREGATE VALUES.

Cons. Winn	1895	1896	Increase (+), or Decrease (-), in 1896	
Goods Made.	1989	1980	Amount	Percent- age
Total value of goods made and work done, .	\$4,928,873	\$ 3,922,418	\$1,006,455	-20.42

PERSONS EMPLOYED.

Persons Employed.							1895	1896	Increase (+), or Decrease (-), in 1896	
PERSO	N8 E	MPLC	Y KD.				1990	1396	Number	Percent- ages
Average number,							2,240	1,864	-376	-16.79
Smallest number,						.	1,937	1,376	561	-28.96
Greatest number,						.	2,526	2,265	-261	10.33
Excess of greatest	over	sma	llest	num	ber,		589	889	+300	+50.93

PERSONS EMPLOYED: BY MONTHS.

						1895			1996				
	Mo	HTRO	3.		Males	Females	Totals	Males	Females	Totals			
January,					2,116	102	2,218	2,031	99	2,130			
February,				.	2,128	101	2,229	2,035	100	2,135			
March,				.	2,086	106	2,192	2,053	98	2,151			
April, .					2,097	106	2,208	2,039	100	2,139			
May, .				. !	2,037	105	2,142	1,949	99	2,048			
June.					2,023	105	2,128	1,502	60 .	1,562			

MUSICAL INSTRUMENTS AND MATERIALS - 1895, 1896 - Concluded.

PERSONS EMPLOYED: BY MONTHS - Concluded.

						1895		1896			
	M	HTK	B.		Males	Females	Totals	Males	Females	Totals	
July, .					2,039	102	2,141	1,395	51	1,446	
August,				.	2,035	109	2,144	1,379	50	1,429	
September,					2,213	111	2,324	1,459	54	1,513	
October,				.	2,212	126	2,387	1,759	84	1,843	
November,				.	2,269	127	2,396	1,851	88	1,939	
December,					2,265	128	2,393	1,871	91	1,962	
During the	en	tire y	ear.		840	50	390	158	4	162	

^{• 18} establishments in 1895; 16 establishments in 1896.

WAGES AND EARNINGS.

VIII	1005		Increase Decrease (—	(十), OR), IN 1896
WAGES AND EARNINGS.	1895	1906	Amounts	Percent- ages
Total amount paid in wages,	\$1,400,562	\$1,143,327	-\$257,285	-18.37
Average yearly earnings,	625.25	613.87	-11.88	1.90

CLASSIFIED WEEKLY WAGES.

CLASSIFICAT	iov c			1895	ļ	1906			
WEEKLY V			Males	Females	Totals	Males	Females	Totals	
Under \$5,			67	35	102	89	35	104	
\$5 but under \$6,			69	72	141	68	52	115	
\$6 but under \$7,		. !	83	11	94	95	11	106	
\$7 but under \$8,		.	95	7	102	88	4	92	
\$8 but under \$9,			101	2	103	90	2	92	
\$9 but under \$10,		. !	167	1	168	114	2	116	
\$10 but under \$12,		.	238	3	241	248	3	251	
\$12 but under \$15,		.	585	1	586	554		554	
\$15 but under \$20,			735	- 1	735	635	- :	635	
\$20 and over, .		٠ĺ	243	-	243	- 177	- !	177	
TOTALS, .		.	2,383	132	2,515	2,183	109	2,242	

PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND	İ	1005	1000	Increase Decrease (—	(+), or), in 1896
DAYS IN OPERATION.		1895	1896	Proportion and Days	Percent-
Average proportion of business done, . Average number of days in operation, .		58.14 289.23	53.77 272.24	-4.37 -16.99	-7.52 -5.87

PAPER AND PAPER GOODS. 1895, 1896.

ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHM			18ID	ERK	D,	1895	1896	Increase Crease No Change (:	(—), OR
Partners,	ETC.							Number	Percent- ages
Number of establishments	rep	orti	ıg,			123	128	∄ =	-
Number of private firms, .						44	40	-4	-9.09
Number of partners, .						84	74	-10	-11.90
Males,					. !	83	73	10	-12.05
Estates,				•		1	1	=	-
Number of corporations, .						79	88	+4	+5.06
Number of stockholders, .					• 1	1,541	1,692	+151	+9.80
Males,	, .				. !	1,004	1,092	∔88	+8.76
Females,					- 1	446	476	+30	+6.73
Banks, trustees, etc., .					• !	91	124	+83	+36.26
Aggregates : partners and	stoc	khol	der	8,	- 1	1,625	1,766	+141	+8.68

CAPITAL INVESTED.

A ********************************	1895	1000	Increase (+), or Decrease (-), in 1896		
CAPITAL INVESTED.	1220	1896	Amount	Percent- age	
Amount of capital invested,	\$24,682,633	\$23,670,894	\$1,011,739	-4.10	

STOCK USED. AGGREGATE VALUES.

STOCK USED.	1895	1896	Increase (+), or Decrease (-), in 1896	
SIOCA USED.	1990	1899	Amount	Percent- age
Total value of stock used,	\$14,830,407	\$ 13,625,290	\$1,205,117	8.13

GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1895	1896	Increase Decémbe ((十), or), in 1996
GOODS MADE.	1050	1990	Amount	Percent- age
Total value of goods made and work done, .	\$25,028,875	\$2 3,044,582	-\$1,988,793	-7.93

PAPER AND PAPER GOODS—1895, 1896—Continued. PERSONS EMPLOYED.

PERSO	W						1895	1896	INCREASE (+), OR DECREASE (-), IN 1806		
FERSU		MPL.	YED.				1990	1896	Number	Percent- ages	
Average number,							11,647	11,112	—585	-4.59	
Smallest number,						• į	10,356	9,514	-842	-8.18	
Greatest number,						- 1	12,558	12,248	—31 5	-2.51	
Excess of greatest	over	sma	llest	num	ber,	.	2,202	2,729	+527	+23.93	

PERSONS EMPLOYED: BY MONTHS.

							1895		1896				
	ж	HTKC	9.			Males	Females	Totals	Males	Females	Totals		
January,		•		•		6,322	5,405	11,727	6,381	5,281	11,662		
February,					.	6,249	5,458	11,702	6,347	5,178	11,525		
March,					.	6,274	5,489	11,768	6,301	5,127	11,428		
April, .						6,330	5,450	11,780	6,833	5,138	11,466		
Мау, .					.	6,328	5,425	11,758	6,238	5,042	11,280		
June, .					.	6,312	5,359	11,671	6,191	5,014	11,205		
July, .					.	6,108	5,162	11,270	5,968	4,610	10,578		
August,					.	6,135	5,126	11,261	5,985	4,427	10,362		
September	,.				.	6,210	5,267	11,477	5,918	4,675	10,593		
October,						6,401	5,446 .	11,847	6,015	4,868	10,883		
November	, .					6,478	5,435	11,913	6,109	5,025	11,134		
December,					.	6,381	5,204	11,585	6,216	5,085	11,251		
During the	en'	tire y	ear,	• .		847	413	1,260	778	465	1,238		

^{• 16} establishments in 1895; 13 establishments in 1896.

WAGES AND EARNINGS.

Wages and Earnin		 		1007	1896	Increase (—	(+), or), in 1896
WAGES AND EARSIN	G8.			1895	1996	Amounts	Percent-
Total amount paid in wages, . Average yearly earnings,	•	:	:	\$4,723,678 405.57	\$4,476,285 402.88	-\$247,893 -2.74	-5.24 -0.68

PAPER AND PAPER GOODS — 1895, 1896 — Concluded. CLASSIFIED WEEKLY WAGES.

Classificati	ON () P	-		1895		1896			
WREKLY W			Males	Females	Totals	Males	Females	Totals		
Under \$5,				231	1,546	1,777	232	1,396	1,628	
\$5 but under \$6,				172	1,504	1,676	186	1,378	1,564	
\$6 but under \$7,			.	372	1,492	1,864	845	1,577	1,922	
\$7 but under \$8,				754	631	1,385	648	596	1,244	
\$8 but under \$9,			. !	760	333	1,093	721	273	994	
\$9 but under \$10,			. 1	1,424	196	1,620	1,448	138	1,586	
\$10 but under \$12,			.	940	72	1,012	955	48	1,003	
\$12 but under \$15,				1,104	17	1,121	1,065	16	1,061	
\$15 but under \$20,			• 1	788	9	797	787	7	794	
\$20 and over, .			• ;	204	1	205	208	-	208	
TOTALS			•	6,749	5,801	12,550	6,595	5,429	12,024	

PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND	1895		INCREASE (+), OR DECREASE (-), IN 1896		
Days in Operation.	1993	1896	Proportion and Days	Percent- ages	
Average proportion of business done, Average number of days in operation,	73.96 287.34	70.77 272.56	-3.19 -14.78	-4.81 -5.14	

WOOLLEN GOODS. 1895, 1896. ESTABLISHMENTS, PARTNERS, ETC.

Increase (+), De-crease (-), or No Change (=), in **1896** NUMBER OF ESTABLISHMENTS CONSIDERED. 1896 1895 PARTNERS, ETC. Percent-Number Number of establishments reporting, . 122 122 _ Number of private firms, . 87 86 -1 -1.15 Number of partners, 143 145 +2+1.40Males, . 132 133 +1 +0.76 Females, 7 7 Special, 1 -100.00 Estates. +25 +66.67 Number of corporations, . 35 36 +1 +2.86Number of stockholders, . 1,192 1,216 +24 +2.01-8.12 Males, . 616 566 ---50 Females, 388 467 +79 +20.36Banks, trustees, etc., . 188 183 -2.661,335 +26 Aggregates: partners and stockholders, 1,361 +1.95

WOOLLEN GOODS — 1895, 1896 — Continued. CAPITAL INVESTED.

Capital Invested.	1895	1896	Increase (+), or Decrease (-), in 1896	
CAFITAL INVESTAGE	1995	1890	Amount	Perceut- age
Amount of capital invested,	\$21,932,897	\$19,186,201	-\$2,746,696	-12.52

STOCK USED. AGGREGATE VALUES.

STOCK USED.	1895	1896	Increase (+), or Decrease (-), in 1896	
STOCK USED.	1899	1996	Amount	Percent-
Total value of stock used,	\$14,410,166	\$11,893,040	-\$8,017,126	-20.94

GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1895	1896	Increase (+), or Decrease (-), in 1896		
GOODS MADE.	1999	1999	Amount	Percent-	
Total value of goods made and work done, .	\$24,899,606	\$19,662,182	-\$ 5,237,424	-21.03	

PERSONS EMPLOYED.

							1007	1000	Increase (+), or Decrease (-), in 1896		
Persons Employed.							1895	1896	Number	Percent- ages	
Average number,		•	•	•			16,139	13,671	-2,468	-15.29	
Smallest number,							18,800	10,822	-2,978	-21.58	
Greatest number,						.	17,622	16,701	-921	-5.28	
Excess of greatest	over	8DA	llest	nom	ber,	.	3,822	5,879	+2,057	+53.82	

PERSONS EMPLOYED: BY MONTHS.

	можтна.									1896		
	310	DXTH	.			Males	Females	Totals	Males	Females	Totals	
January,	•	•		•		9,796	5,444	15,240	9,393	5,312	14,705	
February,					.	9,917	5,586	15,503	9,678	5,420	15,098	
March,						10,280	5,649	15,929	9,867	5,586	15,468	
April, .						10,485	5,719	16,154	9,485	5,396	14,881	
May, .					.	10,569	5,906	16,475	9,155	5,258	14,418	
June, .					.	10,859	5,758	16,117	8,469	4,820	13,289	

WOOLLEN GOODS — 1895, 1896 — Concluded. PERSONS EMPLOYED: BY MONTHS — Concluded.

1895								1896			
	Mo	NTH	. .		İ	Males	Females	Totals	Males	Females	Totals
July, .				_		10,346	5,816	16,162	7,837	4,360	12,197
August,					.	10,652	5,898	16,550	7,825	8,977	11,302
September,					.	10,450	5,788	16,238	7,724	4,099	11,828
October,					. 1	10,664	5,941	16,605	8,901	4,696	18,527
November,					.	10,555	5,886	16,441	8,987	4,760	18,747
December,						10,400	5,798	16,193	8,918	4,770	18,683
During the	ent	ire y	ear,*			1,061	686	1,697	982	563	1,545

^{• 20} establishments in 1895; 16 establishments in 1896.

WAGES AND EARNINGS.

Wagrs and Earnings.	1895	1896	Increase (+), or Decrease (-), in 1800		
WAGES AND EARNINGS.		1950	1899	Amounts	Percent- ages
Total amount paid in wages, Average yearly earnings,		\$5,987,401 870.99	\$4,968,615 368.08	-\$1,028,786 -7.91	-17.10 -2.18

CLASSIFIED WEEKLY WAGES.

CLASSIFICATI	ow c) P			1895		1896			
WEEKLY WAGE.				Males	Females	Totals	Males	Females	Totals	
Under \$5,				1,180	1,876	8,056	1,083	1,641	2,674	
\$5 but under \$6,				850	1,042	1,892	810	1,068	1,878	
\$6 but under \$7,			. !	1,907	1,054	2,961	1,864	1,103	2,967	
\$7 but under \$8,				1,895	1,058	2,953	1,959	1,158	3,112	
\$8 but under \$9,			.	1,361	668	2,029	1,295	589	1,834	
\$9 but under \$10,			.	1,875	389	1,764	1,435	820	1,755	
\$10 but under \$12,				1,282	204	1,486	1,098	179	1,277	
\$12 but under \$15,				781	56	887	788	49	832	
\$15 but under \$20,			.	855		355	894	1	395	
\$20 and over, .		•		183	-	183	168	-	168	
TOTALS,				11,169	6,847	17,516	10,889	6,053	16,892	

PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND	1007	1000	Increase Decrease (-	(+), or -), in 1896
DAYS IN OPERATION.	1895	1896	Proportion and Days	Percent- ages
Average proportion of business done, Average number of days in operation,	82.81 292.19	69.50 259.65	—13.31 —32.54	-16.07 -11.14

WORSTED GOODS. 1895, 1896.

ESTABLISHMENTS, PARTNERS, ETC.

Number of Establishments Considered, Partners, etc.						1895	1896	Increase (+), De- crease (-), or No Change (-), in 1896		
								Number	Percent-	
Number of establishme	nts :	repor	ting,			27	27	=	_	
Number of private firm	s, .					14	18	_1	-7.14	
Number of partners,					.	31	28	_3	-9.68	
Males,					.	25	24	-1	-4.00	
Females,						1	1	=	-	
Special,						5	8	-2	-40.00	
Number of corporation	6, .					13	14	+1	+7.69	
Number of stockholder	8, .					494	501	+7	+1.42	
Males,						818	309	-4	-1.28	
Females,						180	130	=	-	
Banks, trustees, et	c., .					51	62	+11	+21.57	
Aggregates : partners s	und i	stock	bolde	rs,		525	529	+4	+0.76	

CAPITAL INVESTED.

CAPITAL INVESTED.	1895	1896	Increase (+), or Decrease (-), in 1896	
CAPITAL INVESTRU.	1893	1990	Amount	Percent-
Amount of capital invested,	\$15,700,666	\$ 15, 84 8,809	-\$356,857	-2.27

STOCK USED. AGGREGATE VALUES.

STOCK USED.	1895	1000	Increase (+), or Decrease (-), in 1896	
STOCE USED.	1895	1896	Amount	Percent-
Total value of stock used,	\$13,138,003	\$10,861,550	-\$2,271,453	-17.30

GOODS MADE. AGGREGATE VALUES.

Classe William	1005	1000	Increase (+), or Decrease (-), in 1896		
Goods Made.	1895	1896	Amount	Percent- age	
Total value of goods made and work done, .	\$20,599,046	\$17,827,246	-\$2,771,800	-13.46	

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WORSTED GOODS — 1895, 1896 — Continued. PERSONS EMPLOYED.

PERSO	T						1895	1896	Increase Decrease (-	(十), or -), in 189 (
FEESC	NS E	MPLA	TED.				1890	1999	Number	Percent-
Average number,							12,297	11,318	_979	-7.96
Smallest number,							10,899	6,335	-4,564	-41.88
Greatest number,							18,273	13,618	+845	+2.60
Excess of greatest	over	sma	llest	num	ber,	.	2,374	7,283	+4,909	+206.98

PERSONS EMPLOYED: BY MONTHS.

	.	ONTH	_		ĺ		1895			1596	
	20.0)NTH	s. 			Males	Females	Totals	Males	Females	Totala
January,						6,127	5,691	11,818	6,853	6,163	13,016
February,						5,924	5,617	11,541	6,845	6,175	13,020
March,					.	6,159	5,709	11,868	6,272	5,643	11,915
April, .						6,898	5,917	12,815	6,402	5,624	12,026
May, .					.	6,539	5,970	12,509	6,223	5,534	11,757
June, .					.	6,536	5,924	12,460	5,252	4,838	10,090
July, .						6,511	5,922	12,433	5,044	4,657	9,701
August,					.	6,623	5,891	12,514	5,819	5,344	11,163
September	,.				.	6,617	5,835	12,452	5,698	5,160	10,853
October,						6,718	5,941	12,659	5,091	4,507	9,598
November,					- 1	6,794	6,115	12,909	5,923	5,230	11,153
December,					.	6,272	5,771	12,043	5,874	5,643	11,517
During the	ent	ire 3	ear,	٠.		42	19	61	42	18	60

^{* 1} establishment in 1895; 1 establishment in 1896.

WAGES AND EARNINGS.

WAGES AND EARNINGS.		1895	1000	Increase (+), or Decrease (-), in 1806		
WAGES AND EARNINGS.			1990	1896	Amounts	Percent- ages
Total amount paid in wages, Average yearly earnings,		•	\$4,490,457 365.17	\$8,848,327 340.02	\$642,130 25.15	14.30 6.80

WORSTED GOODS — 1895, 1896 — Concluded. CLASSIFIED WEEKLY WAGES.

Classificati	ow c) F	- [1895			1896	
WEEKLY W		-		Males	Females	Totals	Males	Females	Totals
Under \$5,				780	1,912	2,692	764	1,783	2,547
\$5 but under \$6,				717	1,600	2,817	749	1,905	2,654
\$6 but under \$7,				1,054	1,508	2,557	1,158	1,483	2,641
\$7 but under \$8,			.	1,275	683	1,958	1,257	614	1,871
\$8 but under \$9,			.]	548	807	850	579	339	918
\$9 but under \$10,			.	714	162	876	681	232	913
\$10 but under \$12,			٠ ١	868	154	1,017	1,023	163	1,186
\$12 but under \$15,			- !	729	24	753	672	24	696
\$15 but under \$20,			. !	165	4	169	176	8	179
\$20 and over, .				94	1	95	102	2	10
TOTALS			. !	6,984	6,350	13,284	7,161	6,548	13,700

PROPORTION OF BUSINESS DONE.

Proportion of Business Done and	1-0-	1896	Increase (+), or Decrease (-), in 1896		
DAYS IN OPERATION.	1895	1990	Proportion and Days	Percent-	
Average proportion of business done, . Average number of days in operation, .	85.56 805.64	70.30 279.35	—15.26 —26.29	-17.84 -8.60	

ALL INDUSTRIES. 1895, 1896.

ESTABLISHMENTS, PARTNERS, ETC.

NUMBER OF ESTABLISHMENTS CONSIDERED,						ERE	D,	1895	1896	Increase (+), De- crease (), or No Change (), in 1896		
	Pantners, etc.				Number	Percent- ages						
Number of est	ablis	hmei	ats :	epor	ting,			4,609	4,609	∥ _	-	
Number of pri	vate	firme	١, .					3,529	3,498	-36	-1.02	
Number of par	tner	6,					.	5,577	5,482	96	-1.70	
Males, .							.	5,842	5,238	109	-2.04	
Females,								180	145	+15	+11.54	
Special,								47	42	_5	-10.64	
Estates,	•							58	62	+4	+6.90	
Number of cor	pora	tions	٠.					1,036	1,070	+34	+8.28	
Number of sto	ckho	lders	١, .				.	44,928	46,148	+1,215	+2.70	
Males, .							.	25,632	26,528	+896	+3.50	
Females,								14,407	14,750	+843	+2.38	
Banks, tru	stees	, etc	., .					4,889	4,865	-24	-0.49	
Aggregates : p	artne	rs al	nd st	tocki	olde	rs,		50,506	51,625	+1,120	+2.22	

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ALL INDUSTRIES — 1895, 1896 — Continued. CAPITAL INVESTED.

CAPITAL INVESTED.	1895	1000	Increase (+), or Decrease (-), in 1896	
CAPITAL INVESTED.	1990	1896	Amount	Percent- age
Amount of capital invested,	\$390,932,763	\$373,582,161	-\$17,350,602	-4.44

STOCK USED. AGGREGATE VALUES.

STOCK USED.	1895	1896	Increase (+), or Decrease (-), in 1896	
SIOCE USED.	1090	1870	Amount	Percent- age
Total value of stock used,	\$318,753,542	\$302,272,325	-\$16,481,217	-5.17

GOODS MADE. AGGREGATE VALUES.

GOODS MADE.	1895	1896	Increase (-	(+), or), in 1596
GOODS MADS.	1850	1350	Amount	Percent- age
Total value of goods made and work done, .	\$569,097,021	\$537,720,294	—\$31,376,727	-5.51

PERSONS EMPLOYED.

Parso	F	word					1895	1896	Increase Decrease (-	(十), OR -), IN 189 6
I BROU		MPLC	TED.				1990	1896	Number	Percent- ages
Average number,							807,590	298,546	-9,044	-2.94
Smallest number,						.	258,776	235,110	-23,666	-9.15
Greatest number,						.	351,915	353,440	+1,525	+0.43
Excess of greatest	over	smal	lest	num	ber,	.	93,139	118,330	+25,191	+27.05

PERSONS EMPLOYED: BY MONTHS.

						1895			1896	
	M	ONTH	8.		Males	Females	Totals	Males	Females	Totals
January,			•		195,170	104,282	299,452	202,454	106,043	308,497
February,					195,196	104,909	300,105	204,140	106,973	311,113
March,					198,678	106,391	305,069	204,501	106,642	311,143
April, .					200,037	106,226	306,263	204,720	104,948	309,668
May, .					204,100	106,502	810,602	205,399	104,624	310,023
June, .					205,600	104,914	310,514	200,441	100,703	301,144

ALL INDUSTRIES — 1895, 1896 — Concluded. PERSONS EMPLOYED: BY MONTHS — Concluded.

					1895			1896	
Mox	TH	5.		Males	Females	Totals	Males	Females	Totals
July,				202,415	101,120	303,535	192,237	93,631	285,868
August, .				204,691	101,863	806,554	187,060	89,386	276,446
September, .				206,678	104,155	310,833	188,436	92,861	281,297
October, .				206,471	105,791	812,262	193,876	98,891	292,767
November, .				206,339	106,715	313,054	194,893	100,627	295,520
December, .				204,503	106,152	310,655	195,806	102,875	298,681
During the enti-	тө у	ear,*		20,920	11,465	32,385	16,048	7,774	23,822

^{* 942} establishments in 1895; 833 establishments in 1896.

WAGES AND EARNINGS.

Wages and Earnings.	1895	1896	Increase Decrease (-	(+), or), in 1896
WAGES AND FARNINGS.	1570	1896	Amounts	Percent- ages
Total amount paid in wages,	\$130,845,551 425.39	1	—\$3,932,179 —0.23	-3.01 -0.05

CLASSIFIED WEEKLY WAGES.

Classificati	ox c) P	1		1895		1896			
WEEKLY W	AGE.	-		Males	Females	Totals	Males	Females	Totals	
Under \$5,	-			19,621	81,780	51,401	19,208	81,763	50,966	
\$5 but under \$6,				13,282	22,575	35,857	13,170	22,684	35,854	
\$6 but under \$7,				20,046	21,751	41,797	20,601	21,706	42,307	
\$7 but under \$8,			. 1	22,346	15,727	38,073	22,304	16,309	38,613	
\$8 but under \$9,				21,411	10,611	32,022	22,201	10,982	33,183	
\$9 but under \$10,				28,858	6,955	35,813	28,855	6,716	35,571	
\$10 but under \$12,				82,974	5,010	37,984	32,426	5,005	37,431	
\$12 but under \$15,				87,593	2,538	40,181	37,201	2,364	39,565	
\$15 but under \$20,				28,460	735	29,195	28,538	814	29,352	
\$20 and over, .		•		9,285	74	9,359	9,064	96	9,160	
TOTALS, .				233,876	117,756	351,632	233,563	118,439	352,002	

PROPORTION OF BUSINESS DONE.

PROPORTION OF BUSINESS DONE AND		1000	Increase Decrease (-	(十), or), in 1896
DAYS IN OPERATION.	1895	1896	Proportion and Days	Percent- ages
Average proportion of business done, Average number of days in operation,	62.56 291.56	58.98 279.43	-3.58 -12.13	-5.72 -4.16

. . . .

ANALYSIS.

[149]

ANALYSIS.

The statistical presentations contained in this volume are based upon the returns made by 4,609 identical establishments for each of the years 1895 and 1896.

Wherever the term, "All Industries," is used in this volume, it should be understood as referring only to the seventy-seven classified industries mentioned in the first table (pages 4 to 7), and must not be confounded with the total production of all the establishments engaged in the manufacturing and mechanical industries of the Commonwealth which is shown only once in ten years.

On pages 1 to 104 there will be found general statistics by industries, arranged under the sub-heads of Private Firms and Corporations; Partners and Stockholders; Capital Invested; Stock Used; Goods Made; Persons Employed; Wages Paid; and Proportion of Business Done and Days in Operation. The second section, pages 105 to 148, is devoted to detailed presentations for 15 leading industries, all of the statistical facts relating to each industry being grouped under its respective title. This analysis, however, deals only with the presentations contained in the first section, pages 1 to 104.

PRIVATE FIRMS AND CORPORATIONS; PARTNERS AND STOCKHOLDERS: BY INDUSTRIES.

This presentation will be found on pages 4 to 11. The number of establishments reporting in both of the years considered was 4,609. In 1895 these establishments were managed by 3,529 private firms and 1,036 corporations. In 1896, the number of private firms was reduced to 3,493, a decrease of 1.02 per cent, while the number of corporations increased to 1,070, an advance of 3.28 per cent.

The following table indicates the effect, in the aggregate, of the change from private firms to corporations in 1896 as compared with 1895:

PRIVATE FIRMS AND CORPORATIONS.							Nu	BER	PERCENTAGES		
PRIVATE	FIRI	(8 A)	ть сс	DRPOI	RATIO	N8.	1895	1896	1895	1896	
Private firms,							3,529	3,4 9 8	77.31	76.55	
Corporations,	•	•	•	•	•	•	1,036	1,070	22.69	23.45	
Totals,							4,565	4,568	100.00	100.00	

From the above table it is seen that in 1895 private firms constituted 77.31 per cent of the entire number of establishments. In 1896 this percentage decreased to 76.55. figures, as in the past, indicate the prevailing tendency toward the corporate form of management. As before stated, returns were received from 4,609 establishments. These establishments were managed in 1895 by 4,565 private firms and corporations, and in 1896 by 4,563 private firms and corporations. parent discrepancy is fully explained in the head-notes to the tables on pages 4, 5, 8, and 9. Duplications occur so far as private firms and corporations are concerned, for the reason that one firm may carry on two or more establishments in the same or in different towns or industries. The plan adopted in the statistical presentations is to consider each establishment, whether managed in connection with another or not, as a unit, and to credit to each industry its own number of private firms, partners, corporations, and stockholders; but, when considering the total for All Industries, to omit the duplicates. word "establishment," as used in this report, means the factory, mill, or shop from which a report was received, and not the firm or corporation owning or controlling said factory, mill, or shop. There are no duplications so far as the establishments are concerned.

The following table exhibits the number of duplications in private firms, corporations, partners, and stockholders for the years 1895 and 1896:

	PRIVAT	R FIRMS	Corpor	RIOITA	PAR	THERS	Втоски	OLDERS
Industries.	1895	1896	1895	1896	1895	1596	1895	1996
Boots and shoes,	-		1	1	-	_	8	8
Boxes (paper and wooden),	1	1	1	1	1	1	8	7
Carriages and wagons,	1	1		-	2	2	-	-
Cordage and twine,	-	- 1	1 1	1	-	-	6	6
Cotton goods,	-	-	4	4	- 1	-	107	109
Cotton, woollen, and other tex-				1				
tiles,	-	-	1	1	- 1	- 1	504	510
Food preparations,	1	1	*4	*4	1	1	14	14
Hosiery and knit goods,	-	-	2	2	-	- 1	660	650
Leather,	2	2	1	1	5	5	75	78
Lumber,	1	1	_	-	2	2	-	_
Machines and machinery,	-	-	1	1	-	-	18	15
Metals and metallic goods,	2	2	-	-	8	8	_	_
Paper and paper goods,		-	4	4	-	-	37	38
Print works, dye works, and	•							
bleacheries,	-	-	8	8	-	-	722	724
Railroad construction and equip-								
ment,	-	_	† 7	+7	_	-	7	7
Rubber and elastic goods,	1	1	'_	1	1	1	_	41
Stone,	1	1	_	_	8	8		_
Woollen goods,	1	2	2	2	2	8	281	281
Worsted goods,	-	_	1	1	-	-	212	210
TOTALS,	11	12	38	84	20	21	2,604	2,648

^{*} Includes three syndicates.

† Railroads.

Only the number of private firms and corporations and the number of partners and stockholders are affected by these duplications. The returns relative to capital invested, stock used, goods made, persons employed, wages paid, etc., are made separately for each establishment, and in the tabular presentations are credited to the industry to which they properly belong.

The total number of partners in 1895 was 5,577, falling in 1896 to 5,482, a decrease of 95, or 1.70 per cent. A classification of partners by sex is shown for each year in the following table:

	_	_				Nu	BER	PERCENTAGES		
]	Part:	NERS.			1895	1896	1895	1896	
Males, .			·· .			5,342	5,283	95.79	95.40	
Females, .						180	145	2.33	2.64	
Special and e	tate	6, .				105	104	1.88	1.90	
TOTALS,					. [5,577	5,482	100.00	100.00	

The males carrying on these private firms constituted 95.79 per cent of the whole number in 1895 and 95.46 per cent in 1896. The number of females rose from 130 to 145, constituting 2.33 per cent of the total number of partners in 1895, and 2.64 per cent in 1896.

The total number of stockholders in 1895 was 44.928, rising in 1896 to 46,143, an increase of 1,215, or 2.70 per cent.

The following table shows a classification of stockholders by sex:

	STOCKHOLDERS.							Num	BER	PERCENTAGES .		
	81	OCKH	OLDE	rs.				1895	1896	1895	1896	
Males, .		-						25,632	26,528	57.05	57.49	
Females, .							.	14,407	14,750	32.07	31.97	
Banks, truste	ев, (etc.,				•		4,889	4,865	10.88	10.54	
TOTALS,							.	44,928	46,143	100.00	100.00	

There is no great variation shown in the preceding table so far as the sex of the stockholders is concerned, practically 57 per cent being males in each year and 32 per cent females.

The next analysis table exhibits the effect of the change from the private firm to the corporation upon the number of partners in the aggregate and in the average.

									l	Number		
		CL.	ASSII	ICAT	10N.					1895	1896	
Private firms,							•			3,529	3,493	
Partners, .									.	5,577	5,489	
Average numbe	r of	partne	ers t	o a p	rivat	e fire	n, .		.	1.58	1.57	
Corporations,										1,036	1,070	
Stockholders,									.	44,928	46,143	
Average numbe	r of	stock	hold	ers t	0 a C	огро	ratio	n, .	.	43.37	48.12	

There is practically no change in the average number of partners to a private firm in 1895 and 1896. The average number of stockholders to a corporation in 1895 was 43.37 and in 1896, 43.12.

The returns relating to private firms, corporations, partners,

and stockholders for 1896 are condensed in the following summary: The returns represent 4,609 establishments found in 77 industries. The establishments are conducted by 3,493 private firms and 1,070 corporations, or, in other words, 76.55 per cent of the establishments are in the hands of private firms and 23.45 per cent in the hands of corporations. The private firms are managed by 5,482 persons, of whom 5,233, or 95.46 per cent, are males, 145, or 2.64 per cent, are females, and 104, or 1.90 per cent are special partners and estates. The corporations are managed by 46,143 persons, of whom 26,528, or 57.49 per cent, are males, 14,750, or 31.97 per cent, are females, and 4,865, or 10.54 per cent, are banks, trustees, etc. The average number of partners to a private firm is 1.57 and the average number of stockholders to a corporation, 43.12.

CAPITAL INVESTED: BY INDUSTRIES.

Comparison is made of the amount of capital invested in each of the 77 industries in 1895 and 1896 in the presentation on pages 14 and 15. The total amount of capital reported by the 4,609 establishments was \$390,932,763 in 1895 and \$373,582,161 in 1896, a decrease in the latter year of \$17,350,602, or 4.44 per cent.

The following industries, 23 in number, show an increase in capital invested in 1896 as compared with 1895:

Awnings, Sails, Tents, etc.
Bicycles, Tricyles, etc.
Brick, Tiles, and Sewer Pipe.
Burial Cases, Caskets, Coffins, etc.
Carpetings.
Chemical Preparations (Compounded).
Corks, Bungs, and Taps.
Drugs and Medicines.
Emery and Sand Paper and Cloth, etc.
Fertilizers.
Flax, Hemp, Jute. and Linen Goods.
Glue, Isinglass, and Starch.
Hose: Rubber, Linen, etc.

Machines and Machinery.

Mixed Textiles.
Polishes and Dressing.
Print Works, Dye Works, and Bleacheries.
Railroad Construction and Equipment.
Scientific Instruments and Appliances.
Sporting and Athletic Goods.
Tobacco, Snuff, and Cigars.
Trunks and Valises.
Whips, Lashes, and Stocks.

The following 54 industries show a decrease in the amount of capital invested in 1896 as compared with 1895:

Agricultural Implements. Arms and Ammunition. Artisans' Tools. Boots and Shoes. Boxes (Paper and Wooden). Brooms, Brushes, and Mops. Buttons and Dress Trimmings. Carriages and Wagons. Cement, Kaolin, Lime, and Plaster. Clocks, Watches, and Jewelry. Clothing. Cooking, Lighting, and Heating Apparatus. Cordage and Twine. Cotton Goods. Cotton, Woollen, and other Textiles. Cravons, Pencils, Crucibles, etc. Dvestuffs. Earthen, Plaster, and Stone Ware. Electrical Apparatus and Appliances. Electroplating. Fancy Articles, etc. Fine Arts and Taxidermy. Fireworks and Matches. Food Preparations. Furniture. Glass. Hair Work (Animal and Human). Hosiery and Knit Goods.

Ink, Mucilage, and Paste.

Ivory, Bone, Shell, and Horn Goods, etc. Leather. Liquors and Beverages (Not Spirit-Liquors: Malt. Distilled, and Fermented. Lumber Metals and Metallic Goods. Models, Lasts, and Patterns. Musical Instruments and Materials. Oils and Illuminating fluids. Paints, Colors, and Crude Chemicals. Paper and Paper Goods. Perfumes, Toilet Articles, etc. Photographs and Photographic Ma-Printing, Publishing, and Bookbind-Rubber and Elastic Goods. Saddlery and Harness. Shipbuilding. Silk and Silk Goods. Stone. Straw and Palm Leaf Goods. Tallow, Candles, Soap, and Grease. Toys and Games (Children's). Wooden Goods.

The percentages of increase range from 0.11 in Print Works, Dye Works, and Bleacheries to 56.17 in Hose: Rubber, Linen, etc. The range of decrease is from 0.22 per cent in Toys and Games (Children's) to 21.91 per cent in Perfumes, Toilet Articles, etc.

Woollen Goods.

Worsted Goods.

The leading industries are brought forward into the following table:

Industr	ſrs.			Number of Estab- lishments		NT OF INVESTED	Increase (+), or Decrease (), in 189		
ANDUSTRIBO.				Con- sidered	1895	1896	Amounts	Percent-	
Boots and shoes,				605	\$23,172,349	\$19,990,145	\$3,182,204	-13.73	
Carpetings, .				12	6,008,497	6,020,485	+11,988	+0.20	
Cotton goods, .				169	116,141,614	112,902,817	-3,238,797	-2.79	

Industries.	Number of Estab- lishments		et of Invested	Increase (+), or Decrease (-), in 1896		
	Con- sidered	1805	1896	Amounts	Percent- ages	
Leather,	. 148	\$8,479,094	\$7,829,970	-\$1,149,124	—18.55	
Machines and machinery, .	. 871	23,167,426	23,783,684	+566,208	+2.44	
Metals and metallic goods,	. 882	19,177,940	17,683,004	-1,544,936	8.06	
Paper and paper goods, .	. 193	24,682,633	23,670,894	1,011,739	-4.10	
Woollen goods,	. 122	21,932,897	19,186,201	-2,746,696	-12.52	
Worsted goods,	. 27	15,700,666	15,343,809	-856,857	-2.27	
Other industries,	. 2,655	182,469,647	127,771,202	-4,698,445	8.55	
ALL INDUSTRIES, .	. 4,609	\$390,982,763	\$873,582,161	-\$17,850,602	-4.44	

The industries mentioned in detail in the above table are the principal industries of the State. The capital invested in the establishments returned in them was \$258,463,116 in 1895 and \$245,810,959 in 1896, or 66.11 per cent of the total capital for All Industries as returned for the year 1895, and 65.80 per cent in 1896. With the two exceptions of Carpetings and Machines and Machinery, a decrease in the amount of capital invested is shown for each of the nine leading industries.

In order that unwarranted deductions may not be made regarding increase or decrease in investment, as shown by these figures, it may be necessary to call attention, as in previous years, to the fact that the term, "capital," as used in these reports, does not mean merely cash capital or capital stock, but includes all forms of capital devoted to production, such as cash, value of buildings, land, machinery and fixtures, and stock on hand or in process of manufacture; therefore, the aggregate amounts given as capital invested in the different industries, include the actual capital of all forms found in the industry at the time of making the return, and it is obvious that some of the elements included are variable from year to year. A small amount of stock on hand or in process of manufacture at the time the return is made would have its effect in showing diminished capitalization, without, of course, affecting the condition of the industry; and, on the other hand, an investment in stock purchased in a favorable market, the same being held at the time of making the return, would render the amount of capital invested relatively larger than would be found at a time when the stock on hand was comparatively light.

STOCK USED: BY INDUSTRIES.

The term "stock used" includes all kinds of materials used in the establishment, whether entering into the fabric article or consumed in the processes necessary to the production of goods.

On pages 18 and 19 a comparison of the value of stock used in the 4,609 establishments making returns in each of the years 1895 and 1896 is shown. The table in detail requires no special analysis. In All Industries the total value of stock used was \$318,753,542 in 1895 and \$302,272,325 in 1896, a decrease of \$16,481,217, or 5.17 per cent.

For the purpose of comparing the nine leading industries, we present the following table:

Industries.	Number of Estab- lishments	VALUE OF S	STOCK USED	Increase (+), or Decrease (-), in 1896	
Industrials.	Con- sidered	1895	1896	Amounts	Percent-
Boots and shoes,	805	\$55,559,505	\$53,888,477	\$1,676,028	-3.02
Carpetings,	. 12	4,836,556	3,302,865	1,033,691	-23.84
Cotton goods,	. 169	46,244,435	50,297,985	+4,053,550	+8.77
Leather,	. 143	15,746,203	13,127,769	-2,618,434	-16.63
Machines and machinery, .	. 371	9,931,227	10,350,938	+419,711	+4.23
Metals and metallic goods,	. 382	11,021,656	10,626,329	- 895,327	-3.59
Paper and paper goods, .	. 123	14,830,407	13,625,290	-1,205,117	-8.13
Woollen goods,	. 122	14,410,166	11,393,040	-3,017,126	-20.94
Worsted goods,	. 27	13,183,003	10,861,550	-2,271,458	17.30
Other industries,	. 2,655	183,540,384	124,803,082	-8,737,802	-6.54
ALL INDUSTRIES, .	. 4,609	\$318,753,542	\$302,272,325	-\$16,481,217	-5.17

The value of the stock used in 1895 in the establishments classified under the nine leading industry heads was \$185,213,-158, and in 1896, \$177,469,243, representing 58.11 per cent of the total stock used in All Industries in 1895, and 58.71 per cent in 1896.

GOODS MADE: BY INDUSTRIES.

The presentation on pages 22 and 23 shows a comparison of the value of goods made in the establishments supplying returns for the years 1895 and 1896. The total value of goods made and work done in the 4,609 establishments was, in 1895, \$569,097,021, and in 1896, \$537,720,294, a decrease in the last named year of \$31,376,727, or 5.51 per cent.

The following industries exhibit a decrease greater than that shown for All Industries:

Buttons and Dress Trimmings. Carpetings. Carriages and Wagons. Cement, Kaolin, Lime, and Plaster. Chemical Preparations (Compounded). Clocks, Watches, and Jewelry. Clothing. Cotton, Woollen, and other Textiles. Dvestuffs. Earthen, Plaster, and Stone Ware. Electrical Apparatus and Appliances. Fertilizers. Furniture. Glass. Hair Work (Animal and Human). Hosiery and Knit Goods. Ink, Mucilage, and Paste. Ivory, Bone, Shell, and Horn Goods, etc.

Leather.

Liquors and Beverages (Not Spirituous). Lumber. Mixed Textiles. Musical Instruments and Materials. Paints, Colors, and Crude Chemicals. Paper and Paper Goods. Perfumes, Toilet Articles, etc. Print Works, Dve Works, and Bleach-Rubber and Elastic Goods. Scientific Instruments and Appliances. Shipbuilding. Silk and Silk Goods. Tallow, Candles, Soap, and Grease. Tobacco, Snuff, and Cigars. Trunks and Valises. Whips, Lashes, and Stocks. Wooden Goods. Woollen Goods. Worsted Goods.

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In the following table we give the value of goods made and work done for the nine leading industries:

Industries.	Number of Estab- lishments	VALUE OF G	OODS MADE	Increase (+), or Decrease (), in 1896		
INDUSTRIAN.	Con- sidered	1895	1896	Amounts	Percent- ages -2.22	
Boots and shoes,	. 605	\$89,938,212	\$87,945,168	-\$1,993,044		
Carpetings,	. 12	7,213,798	5,674,637	1,539,161	-21.34	
Cotton goods,	. 169	89,615,751	87,148,004	-2,469,747	-2.76	
Leather,	. 143	22,379,841	19,041,544	-3,838,297	-14.92	
Machines and machinery, .	. 871	26,027,029	28,489,920	+2,462,891	+9.46	
Metals and metallic goods,	. 382	24,484,118	23,472,316	-1,011,802	-4.18	
Paper and paper goods, .	. 123	25,028,375	23,044,582	-1,983,793	7.93	
Woollen goods,	. 122	24,899,606	19,662,182	-5,237,424	-21.03	
Worsted goods,	. 27	20,599,046	17,827,246	-2,771,800	-13.46	
Other industries,	. 2,655	238,911,245	225,416,695	-13,494,550	-5.65	
ALL INDUSTRIES, .	. 4,609	\$569,097,021	\$537,720,294	-\$31,376,727	-5.51	

In 1895, the aggregate value of goods made and work done in these nine leading industries was \$330,185,776, and in 1896, \$312,303,599, representing 58.02 per cent of the total value of goods made and work done in All Industries in 1895, and 58.08 per cent in 1896. Only one of these leading industries, namely, Machines and Machinery, shows an increase in product.

In the following table we present the increase or decrease in value of goods made and work done each year, as shown by former published reports, beginning with the year 1886:

	COMPARATIVE YEARS.								Number of Establish- ments Considered in Each Year	INCREASE (+), OR DECREASE (-) IN VALUE OF GOODS MADE AND WORK DONE IN EACH YEAR AS COMPARED WITH THE PREVIOUS YEAR		
									Compared	Amounts	Percentages	
1886, 1887,									1,027	+\$13,919,859	+5.29	
1887, 1888,									1,140	+11,168,095	+3.61	
1888, 1889,									1,364	+9,653,992	+2.45	
1889, 1890,									8,041	+22,838,970	+4.37	
1890, 1891,									3,745	+8,068,053	+1.33	
1891, 1892,									4,473	+33,180,865	+5.37	
1892, 1893,									4,397	51,793,852	-8.10	
1893, 1894,									4,093	56,793,448	-10.27	
1894, 1895,									3,629	+48,048,021	+9.18	
1895, 1896,									4,609	-31,376,727	-5.51	

The above table shows an increase in value of goods made and work done in 1887 as compared with 1886 of 5.29 per cent; in 1888 as compared with 1887, an increase of 3.61 per cent; in 1890 as compared with 1889, an increase of 2.45 per cent; in 1891 as compared with 1890, an increase of 4.37 per cent; in 1892 as compared with 1891, an increase of 5.37 per cent; in 1893 as compared with 1891, an increase of 5.37 per cent; in 1894 as compared with 1893, a decrease of 8.10 per cent; in 1894 as compared with 1893, a decrease of 9.18 per cent; in 1896 as compared with 1894, an increase of 9.18 per cent; in 1896 as compared with 1895, a decrease of 5.51 per cent. The number of establishments reporting should be taken into consideration in comparing these returns, and it should be borne in mind that in any two comparative years, the returns made were those of identical establishments.

PERSONS EMPLOYED: BY INDUSTRIES.

The statistical presentations relative to persons employed will be found upon pages 25 to 64. In the analysis table which follows, we bring forward the figures representing the average number of persons employed during the years 1895 and 1896 for the nine leading industries, for other industries, and for All Industries in the aggregate:

Industrie	3.			Number of Estab- lishments	AVERAGE N PERSONS E DURING T	MPLOYED	Increase (+), or Decrease (-), ii 1896	
				Con- sidered	1895	1896	Number	Percent- ages
Boots and shoes, .				605	43,180	42,268	-917	-2.12
Carpetings,				12	4,616	4,232	-384	-8.82
Cotton goods,				169	79,795	78,058	-1,787	—2.18
Leather,				148	7,168	6,347	821	11.45
Machines and machinery,				371	16,933	18,082	+1,149	+6.79
Metals and metallic goods	١,			382	14,694	14,242	-452	-8.08
Paper and paper goods,				128	11,647	11,112	535	-4.50
Woollen goods,				122	16,139	18,671	-2,468	15.29
Worsted goods,				27	12,297	11,318	979	—7.96
Other industries, .			•	2,655	101,121	99,221	-1,900	-1.88
ALL INDUSTRIES,				4,609	807,590	298,546	-9,044	-2.94

The final line of the table indicates that in the 4,609 establishments making return, an average number of 307,590 persons were employed in All Industries during the year 1895, and 298,546 persons in 1896, a decrease of 9,044 persons, or 2.94 per cent. All the leading industries, except Machines and Machinery, show a decrease in 1896 as compared with 1895, the largest percentage of decrease being found in Woollen Goods, in which 16,139 persons, on an average, were employed in the 122 establishments making return in 1895 and 13,671 persons in 1896, a decrease of 15.29 per cent.

The table which follows gives the number of persons employed at the periods of employment of the smallest number in the nine leading industries:

Industri	ES.		Number of Estab- lishments	SMAI NUMBER OF EMPL	PERSONS	Increase (+), or Decrease (), in 1896	
			 Con- sidered	1895	1896	Number	Percent-
Boots and shoes, .			605	83,362	32,679	683	-2.05
Carpetings,			12	4,851	8,417	-934	-21.47
Cotton goods,			169	73,778	66,044	-7,734	-10.48
Leather,			143	5,787	5,018	-719	-12.53
Machines and machinery	7, .		871	18,449	14,259	+810	+6.02
Metals and metallic good	ls,		382	12,128	11,740	-388	-3.20
Paper and paper goods,			123	10,356	9,514	-842	-8.13
Woollen goods,			122	13,800	10,822	-2,978	-21.58
Worsted goods,			27	10,899	6,335	-4,564	-41.88
Other industries, .	•	•	2,655	80,916	75,282	-5,634	-6.96
ALL INDUSTRIES,			4,609	258,776	235,110	-23,666	-9.15

The final line of the table indicates that 258,776 persons were employed at the periods of employment of the smallest number in 1895, and 235,110 persons at the corresponding periods in 1896, a decrease of 23,666 persons, or 9.15 per cent. All of the leading industries, except Machines and Machinery, show a decrease, the highest percentage of decrease being found in Worsted Goods.

A similar comparison for persons employed at the periods of employment of the greatest number is shown in the following table:

Industria	:6.			Number of Estab- lishments	GREA NUMBER OF EMPL	PERSONS	OR DECRE	Increase (+), or Decrease (), in 1896	
			 	Con- sidered	1895	1896	Number	Percent- ages	
Boots and shoes,				605	52,063	51,998	65	-0.12	
Carpetings,		•		12	4,794	4,791	-3	-0.06	
Cotton goods,				169	83,545	86,494	+2,949	+3.53	
Leather,				143	8,502	8,046	-456	-5.36	
Machines and machinery	٠, .			371	20,228	21,348	+1,120	+5.54	
Metals and metallic good	s,			382	17,138	16,535	603	-3.52	
Paper and paper goods,				123	12,558	12,243	315	-2.51	
Woollen goods,				122	17,622	16,701	921	5.23	
Worsted goods,				27	13,273	13,618	+345	+2.60	
Other industries, .				2,655	122,192	121,666	-526	-0.43	
ALL INDUSTRIES,				4,609	851,915	853,440	+1,525	+0.43	

As indicated by the figures in the last line of this table, 351,915 persons were employed in 1895 at the periods of employment of the greatest number, and at the corresponding periods in 1896, 353,440 persons were employed, an increase of 1,525, or 0.43 per cent. Three industries, namely, Cotton Goods, Machines and Machinery, and Worsted Goods, exhibit an increase in the greatest number of persons employed.

For the purpose of exhibiting the range of employment and unemployment year by year since 1886, as shown by these annual reports, the following table of percentages is given:

								Pas	BCENTAGES	
(COMPARATIVE YEARS.				•		Number of Estab- lishments Con- sidered	Persons Employed at Periods of Employ- ment of Smallest Number of Persons Employed at Periods of Employment of Greatest Number	Range (Unemployed at some time During the Year)	Persons Employed at Periods of Employment of Greatest Number
1886, .	•						1,027	77.88	22.67	100.00
1887, .	•					•	1,027	78.57	21.43	100.00
1887, .							1,140	78.72	21.28	100.00
1888, .							1,140	77.18	22.82	100.00
1888, .							1,364	76.64	23.36	100.00
1889, .							1,864	79.52	20.48	100.00
1889, .							8,041	76.67	23.33	100.00
1890, .	•				•		8,041	78.05	21.95	100.00
1890, .							8,745	77.91	22.09	100.00
1891, .					•		8,745	78.50	21.50	100.00
1891, .							4,478	77.52	22.48	100.00
1892, .	•	•	•	•		•	4,478	76.90	28.10	100.00
1892, .							4,897	77.66	22.84	100.00
1898, .			•		•	•	4,897	64.88	85.62	100.00
1893, .							4,093	65.17	34.83	100.00
1894, .	•	•	•	•		•	4,093	66.55	83.45	100.00
1894, .							8,629	67.11	32.89	100.00
1895, .							8,629	74.40	25.60	100.00
1895, .							4,609	73.53	26.47	100.00
1896, .							4,609	66.52	88.48	100.00

In order that these percentages may have their full effect, let it be borne in mind that if no persons were out of employment at any time during the year, in the establishments making return in the different industries, the percentage of persons employed throughout the year would stand at 100; but, inasmuch as at the periods of employment of the smallest number, less persons are employed than at the periods of employment of the greatest number, the difference between the number of persons employed at these two periods may be represented by a percentage which indicates the number of persons unemployed at some time during the year, the duration of unemployment, of course, not being determined. This percentage is shown in the table in the third column.

It will be noted that from 1886 to 1892, the percentage of persons unemployed at some time during the year did not reach one-fourth of the greatest number of persons employed, while from 1893 to 1896 the percentages of unemployment materially increased, in several instances exceeding one-third of this greatest number.

The following table, brought forward from the presentation relating to persons employed by months, pages 37 to 63, exhibits the aggregate number of persons employed in each specified month together with the average number of persons employed per month in each of the 4,609 establishments:

Months.							AGGREGATE PERSONS EMPLO SPECIFIED	OYED IN EACH	AVERAGE NUMBER OF PERSONS EMPLOYED IN EACH ESTABLISHMENT IN EACH SPECIFIED MONTH		
							1895	1896	1895	1896	
January,							299,452	808,497	65 .	67	
February,							300,105	811,113	65	68	
March,			•				805,069	811,143	66	68	
April, .							306,263	309,668	66	67	
Мау, .							310,602	810,023	67	67	
June, .							310,514	801,144	67	65	
July, .							303,535	285,868	66	62	
August,							806,554	276,446	67	60	
September	, .						310,833	281,297	67	61	
October,							312,262	292,767	68	64	
November,							813,054	295,520	68	64	
December,							310,655	298,681	67	65	

No large variation in the number of persons employed month by month is shown in the preceding table, the average number of persons per establishment being practically the same, except for the months of July, August, and September of 1896.

To indicate more fully the range of unemployment, as shown by percentages, the following table for All Industries is presented:

	:	Mont	HS.			PERCENT EMPLOYMENT MONTHS &	DUBING THE	PERCENTAGES OF UNEMPLOTMENT DURING THE MONTHS SPECIFIED		
						1895	1896	1895	1896	
January,		•		•		95.66	99.15	4.84	0.85	
February,					.	95.86	99.99	4.14	0.01	
March,					.	97.45	100.00	2.55	-	
April, .					.	97.83	99.58	2.17	0.47	
May, .						99.22	99.64	0.78	0.36	
June, .					.	99.19	96.79	0.81	3.21	
July, .					.	96.96	91.88	8.04	8.12	
August,					.	97.92	88.85	2.08	11.15	
September,					. !	99.29	90.41	0.71	9.59	
October,						99.75	94.09	0.25	5.91	
November,					• [100.00	94.98		5.02	
December,					. !	99.23	95.99	0.77	4.01	

The number of persons employed in November, 1895 (this being the month of employment of the greatest number in that year), is considered 100 per cent; and the number of persons employed in March, 1896 (this being the month in which the greatest number of persons was employed in that year), is also considered 100 per cent. The percentages of unemployment during the other months are obtained by finding the difference between the percentages of employment appearing each month and 100 per cent. For instance, the smallest number of persons employed in 1895 is found in the month of January; the number employed in the month of November, as has been explained, constituted 100 per cent; the number employed in the month of January is represented by 95.66 per cent, the percentage of unemployment being the difference between 95.66 and 100 per cent, or 4.34 per cent. Again, the smallest number of persons employed in any single month in 1896 is found in August, the percentage indicating the smallest number being 88.85; the difference between this and 100, namely, 11.15, indicates the percentage of unemployment in that month.

The reader may find it interesting to make similar comparisons for the other industries shown in the presentation, pages 37 to 63.

WAGES PAID: BY INDUSTRIES.

The statistical matter under this subject comprises three presentations, pages 65 to 98. The first relates to the total amount paid in wages in the 4,609 establishments during the years 1895 and 1896, the second to the average yearly earnings of each of the employés in these same establishments during the years specified, and the third to classified weekly wages.

WAGES PAID.

The facts relating to the total amount of wages paid are given on pages 67 and 68. In the following table are brought forward the figures for the nine leading industries:

Industries.	E	mber of Satab- hments	IN W	OUNT PAID AGES THE YEAR	Increase (+), or Decrease (-), in 1896		
		Con- sidered 1895 1896		1896	Amounts	Percent- ages	
Boots and shoes,		605	\$20,888,632	\$20,834,831	-\$4,301	-0.02	
Carpetings,		12	1,709,689	1,443,472	-266,217	-15.57	
Cotton goods,		169	26,234,125	25,865,194	368,931	-1.41	
Leather,		143	3,448,203	2,984,515	-463,688	-13.45	
Machines and machinery, .		371	9,072,876	9,731,509	+658,638	+7.26	
Metals and metallic goods, .		382	7,479,648	7,218,118	-261,525	-8.50	
Paper and paper goods, .		123	4,723,678	4,476,285	247,393	-5.24	
Woollen goods,	.	122	5,987,401	4,963,615	-1,023,786	-17.10	
Worsted goods,		27	4,490,457	8,848,327	-642,130	-14.30	
Other industries,	.	2,655	46,860,847	45,548,006	-1,312,841	-2.80	
ALL INDUSTRIES,		4,609	\$130,845,551	\$126,918,372	-\$3,932,179	-3.01	

In the 4,609 establishments making return, the total amount paid in wages during the year 1895 was \$130,845,551, and in 1896, \$126,913,372, showing a loss of \$3,932,179, or 3.01 per cent. Only one industry of the above nine, namely, Machines and Machinery, shows an increase. The largest percentages of decrease are found in Woollen Goods, Carpetings, Worsted Goods, and Leather.

AVERAGE YEARLY EARNINGS.

The average yearly earnings in the nine leading industries are brought forward in the following table from the presentation on pages 69 and 70:

Industries.				Number of Estab- lishments		rage Earnings	Increase (+), or Decrease (), in 1896		
					Con- sidered	1895	1896	Amounts	Percent-
Boots and shoes, .					605	\$482.60	\$492.97	+\$10.87	+2.15
Carpetings,					12	870.88	841.09	-29.29	-7.91
Cotton goods,					169	828.77	831.36	+2.59	+0.79
Leather,					143	481.06	470.22	-10.84	-2.25
Machines and machine	y,				871	535.81	588.19	+2.88	+0.44
Metals and metallic goo	ds,				882	509.03	506.82	-2.21	-0.48
Paper and paper goods	, .				123	405.57	402.88	-2.74	-0.68
Woollen goods, .					122	370.99	363.08	—7.91	-2.18
Worsted goods, .					27	365.17	340.02	—25 .15	-6.89
Other industries, .		•			2,655	463.41	459.06	-4.35	-0.94
ALL INDUSTRIES,					4,609	\$425.89	\$425.16	-\$0.28	-0.05

The averages in the preceding table are obtained by dividing the total amount of wages paid in each industry, as presented in the table on pages 67 and 68, by the aggregate average number of persons employed, without discrimination as to sex or age. Such an average is, of course, only useful in comparison with averages similarly obtained. The final line of this table reproduces the figures for All Industries. It will be noted that a very slight difference is seen when comparing 1896 with 1895, indicating that each of the employés received, on an average, \$425.39 in 1895, and \$425.16 in 1896, a decrease of 23 cents, or 0.05 per cent. Three industries, namely, Boots and Shoes, Cotton Goods, and Machines and Machinery, show increase in average yearly earnings.

CLASSIFIED WEEKLY WAGES.

Actual wage conditions in the different industries may, perhaps, be more accurately seen from the classified wage presentation, pages 71 to 97, than from aggregate or average

tables of wages. The following table brings forward such a classified wage presentation, with percentages for All Industries:

									Perce	TAGES		
CLASSIFIC	ATIO	(O)	WE	EXLY	WAG	B.		18	95	1896		
								Males	Females	Males	Females	
Under \$5,	•							38.17	61.83	87.68	62.32	
\$5 but under	\$ 6,							37.04	62.96	36.73	63.27	
\$6 but under	\$7,						.	47.96	52.04	48.69	51.31	
\$7 but under	\$ 8,						. 1	58.69	41.31	57.76	42.24	
\$8 but under	\$ 9,						. '	66.86	83.14	66.90	33.10	
\$9 but under	\$ 10,						. 1	80.58	19.42	81.12	18.88	
\$10 but under	\$12,						• 1	86.81	13.19	86.63	13.37	
\$12 but under	\$15,							93.68	6.32	94.03	5.97	
\$15 but under	\$20,						. '	97.48	2.52	97.23	2.77	
\$20 and over,							• 1	99.21	0.79	98.95	1.05	
TOTALS,							. 1	66.51	83.49	66.35	33.65	

This table indicates that of the employés receiving less than \$5 per week, 38.17 per cent were males in 1895 and 37.68 per cent in 1896. The proportion of females in this class was 61.83 per cent in 1895 and 62.32 per cent in 1896. The proportion of males in each wage class increases after the \$5 but under \$6 wage limit is passed while the proportion of females correspondingly declines.

The fluctuations in the different wage classes are shown for All Industries in the following table:

					PERCE	NTAGES		
CLASSIFICATION O	 ZEEKI	Y		1895		1896		
W AGE.			Males	Females	Totala	Males	Females	Totals
			100.00	100.00	100.00	100.00	100.00	100.00
Under \$5,			8.39	26.99	14.62	8.22	26.82	14.48
\$5 but under \$6,			5.68	19.17	10.20	5.64	19.15	10.19
\$6 but under \$7,			8.57	18.47	11.89	8.82	18.33	12.02
\$7 but under \$8,			9.55	18.36	10.83	9.55	13.77	10.97
\$8 but under \$9,			9.16	9.01	9.11	9.51	9.27	9.43
\$9 but under \$10,			12.34	5.91	10.18	12.35	5.67	10.10
\$10 but under \$12,			14.10	4.25	10.80	13.88	4.22	10.63
\$12 but under \$15,			16.07	2.16	11.41	15.93	2.00	11.24
\$15 but under \$20,			12.17	0.62	8.30	12.22	0.69	8.34
\$20 and over, .			3.97	0.06	2.66	3.88	0.08	2.60

In this table, the total number of males, the total number of females, and the total number of employés of both sexes are each considered as representing 100 per cent, and the number of employés in each wage class constitute parts of this aggregate, or in other words, are represented by percentages which totalize to 100. That class in which the proportion of sexes is about the same in each year is the class receiving \$8 but under \$9 per week. The percentages of males in this class in 1895 and 1896 were 9.16 and 9.51 respectively, and of females, 9.01 and 9.27, respectively. The percentages of males and females do not materially vary in either year.

PROPORTION OF BUSINESS DONE: BY INDUSTRIES.

The statistical matter relating to this subject, which covers proportion of business done and average number of days in operation, will be found on pages 99 to 104.

Proportion of Business Done.

In computing the proportion of business done, maximum production, that is to say, the greatest amount of goods that can be turned out with the present facilities, is considered 100 per cent. In the 4,609 establishments making return in each year, the average proportion of business done in 1895 is represented by 62.56 per cent and in 1896 by 58.98 per cent.

The following table reproduces the average proportion of business done for the nine selected industries:

Industries.				Number of Estab- lishments	POR	TE PRO- TION ESS DONE	Increase (+), or Decrease (-), in 1896		
					Con- sidered	1895	1896	Proportion	Percent- ages
Boots and shoes, .					605	62.04	58.61	-3.43	-5.53
Carpetings,					12	73.50	68.25	-5.25	-7.14
Cotton goods,					169	87.22	77.33	-9.89	-11.34
Leather,					143	66.51	58.35	-8.16	-12.27
Machines and machinery,					871	59.08	56.78	-2.30	-3.89
Metals and metallic goods					382	61.90	59.10	-2.80	-4.52
Paper and paper goods,					123	73.96	70.77	-3.19	-4.31
Woollen goods,					122	82.81	69.50	-13.31	-16.07
Worsted goods,					27	85.56	70.30	-15.26	-17.84
Other industries, .					2,655	59.74	57.08	-2.71	-4.54
ALL INDUSTRIES,					4,609	62.56	58.98	-3.58	-5.72

It will be noted from an examination of the preceding table that production in the nine leading industries in 1896 ranged from about one-half to nearly eight-tenths of the full capacity of the establishments and in comparison with 1895 each industry shows a decline in average proportion of business done.

DAYS IN OPERATION.

The statistical presentation relating to this division of the subject will be found on pages 102 and 103. The average number of days in operation for All Industries in 1895 was 291.56, and in 1896, 279.43, a decrease of 12.13 days, or 4.16 per cent.

In the following table we bring forward the facts for the nine leading industries:

Industries.			Number of Estab- lishments	OF I	NUMBER DAYS RATION	Increase (+), or Decrease (-), in 1896		
				 Con- sidered	1895	1896	Days	Percent- ages
Boots and shoes, .				605	284.64	282.30	-2.34	-0.82
Carpetings,				12	299.63	241.14	58.49	-19.52
Cotton goods,				169	297.36	279.53	-17.83	-6.00
Leather,				143	294.78	286.13	-8.60	-2.92
Machines and machinery				371	297.55	292.16	-5.39	-1.81
Metals and metallic good	١,			382	284.14	278.79	5.35	-1.88
Paper and paper goods,				123	287.34	272.56	-14.78	-5.14
Woollen goods,				122	292.19	259.65	-32.54	-11.14
Worsted goods,				27	305.64	279.35	26.29	-8.60
Other industries, .			•	2,655	288.09	280.60	-7.49	-2.60
ALL INDUSTRIES,				4,609	291.56	279.43	-12.13	-4.16

It will be noted that each of these nine industries exhibits a falling off in the number of days in operation in 1896 as compared with 1895, Carpetings leading, with a loss of 58.49 days.

The total number of working days in 1896, exclusive of 52 Sundays and 7 holidays, was 307. The average number of working days in a month was, therefore, 25.58. The following industries show a loss of more than one month but less than two months, on an average, in 1896 as compared with 1895:

Dyestuffs.
Earthen, Plaster, and Stone Ware.
Glass.
Mixed Textiles.

Silk and Silk Goods. Trunks and Valises. Woollen Goods. Worsted Goods. Carpetings is the only industry which shows a loss of more than two months, on an average, in 1896 as compared with 1895.

Two industries, namely, Fireworks and Matches and Lumber, show a gain of more than one month but less than two months, on an average, in 1896 as compared with 1895.

SUMMARY.

The tables which follow bring before the reader the leading factors relative to the condition of the various industries in 1895 and 1896. For convenience in reviewing, the 77 industries are separated into classes. The first class comprises those industries which show an increase in the average number of days in operation and in the average proportion of business done in 1896 as compared with 1895; the second class, those industries which show an increase in the average number of days in operation but a decrease in the average proportion of business done; the third class, those industries which show a decrease in the average proportion of business done; and the fourth and last class, those industries which show a decrease in the average number of days in operation and in the average proportion of business done.

In the analysis of these classes, the percentages of increase or decrease in the proportion of business done are based upon the total productive capacity of the establishments and not upon the aggregate value of goods manufactured in 1896.

The table relating to the first class follows:

	Ì	Increase (+), or Decrease (-), in 1896 as Compared with 1895 in							
Industries.	- 1	Average Number of Days in Operation	Average Proportion of Busi- ness Done	Average Yearly Earnings	Average Number of Persons Employed	"Range"			
Arms and ammunition,	.	+4.52	+2.58	+\$31.58	-64	+112			
Brick, tiles, and sewer pipe,	٠	+14.46	+2.66	-2.14	+62	+104			
Fireworks and matches,	١.	+37.98	+2.25	-15.19	+11	20			
Printing, publishing, and bookbinding,	.	+10.11	+0.17	+6.65	_7	-41			
Railroad construction and equipment,		+0.59	+6.94	+21.17	+420	+314			
Shipbuilding,		+8.16	+1.49	+4.22	+6	+14			

The industries which are grouped in this table are those which show an increase in the average number of days in operation and also in the average proportion of business done. Four of these industries show an increase in average yearly earnings, namely, Arms and Ammunition: Printing. Publishing, and Bookbinding; Railroad Construction and Equipment; and Shipbuilding. An increase in average number of persons employed is shown for Brick. Tiles, and Sewer Pipe: Fireworks and Matches; Railroad Construction and Equipment; and Shipbuilding.

The difference in the range of unemployment is greater in 1896 than in 1895 in Arms and Ammunition: Brick, Tiles, and Sewer Pipe: Railroad Construction and Equipment: and Shipbuilding; it is narrower in Fireworks and Matches and Printing, Publishing, and Bookbinding.

Industries of the second class are grouped in the following table:

	Incres	Increase (+), or Decrease (-), in 1896 as Compared with 1895 in -							
Industries.	Average Number of Days in Operation	Average Proportion of Busi- ness Done	Average Yearly Earnings	Average Number of Persons Employed	"Range"				
Cement, kaolin, lime, and plaster,	+10.65	-0.30	+\$8.29	-1	+13				
Cooking, lighting, and heating apparatus,	+3.12	-2.86	-23.78	+89	-138				
Drugs and medicines,	+1.95	-4.63	-4.03	-23	-39				
Electroplating,	+4.74	-3.66	+35.38	+9	+9				
Fertilizers,	+1.84	-1.66	-1.39	+2					
Hose: rubber, linen, etc.,	+1.45	-4.50	-42.85	+212	+186				
Lumber,	+25.76	-6.18	+13.65	-40	-21				
Oils and illuminating fluids,	+0.27	-1.67	-10.66	+14	+54				
Polishes and dressing,	14.94	-3.39	-35.81		36				
Scientific instruments and appliances, .	+4.18	-3.25	+25.25	+30	+14				
Toys and games (children's),	+0.23	-2.37	-16.28	+26	•-				

^{*} No change.

The above industries are those which show an increase in the average number of days in operation and a decrease in the average proportion of business done. Of these industries, the following show an increase in average yearly earnings:

Cement, Kaolin, Lime, and Plaster. Scientific Instruments and Appli-Electroplating. ances. Lumber.

Those showing a decrease in average yearly earnings are:

Cooking, Lighting, and Heating Apparatus. Drugs and Medicines. Fertilizers. Hose: Rubber, Linen, etc.
Oils and Illuminating Fluids.
Polishes and Dressing.
Toys and Games (Children's).

In Polishes and Dressing, no change in the average number of persons employed in 1896 as compared with 1895 appears; and, with the further exception of Cement, Kaolin, Lime, and Plaster; Drugs and Medicines; and Lumber, an increase is shown for all the industries in this class.

The range of unemployment was wider in 1896 than in 1895 in but five industries in this class, namely, Cement, Kaolin, Lime, and Plaster; Electroplating; Hose: Rubber, Linen, etc.; Oils and Illuminating Fluids; and Scientific Instruments and Appliances. In Fertilizers and Toys and Games (Children's), there was no variation in the range of unemployment in 1896, while a narrower range was shown for Cooking, Lighting, and Heating Apparatus; Drugs and Medicines; Lumber; and Polishes and Dressing.

Industries of the third class are presented in the following table:

	Increase (+), or Decrease (-), in 1896 as Compared with 1895 in							
Industries.	Average Number of Days in Operation	of Busi-	Average Yearly Earnings	Average Number of Persons Employed	"Range"			
Agricultural implements,			-4.19	+0.88	-\$23.12	+25	+148	
Cordage and twine,			-4.92	+1.69	+13.21	+91	+134	
Corks, bungs, and taps,			-5.57	+8.33	-2.35	+7	+20	
Earthen, plaster, and stone ware,			-29.35	+2.42	-16.34	-21	+9	
Electrical apparatus and appliances,			-1.84	+1.66	-14.58	230	-107	
Fancy articles, etc.,			-7.60	+1.37	+4.74	-5	+38	
Fine arts and taxidermy,			-4.18	+5.67	-12.67	+5	-2	
Flax, hemp, jute, and linen goods,			-22.85	+2.80	20.36	+8	+211	
Glue, isinglass, and starch,			-17.99	+8.09	-81.76	+50	+116	
Liquors: mait, distilled, and ferment	ed,		-0.98	+1.04	+2.83	+68	-18	
Saddlery and harness,			-3.48	+0.44	-7.95	-17	+10	

The above industries are those which show a decrease in the average number of days in operation but a greater average proportion of business done. With the exception of three indus-

tries, namely, Cordage and Twine; Fancy Articles, etc.; and Liquors: Malt, Distilled, and Fermented, a decrease is shown in average yearly earnings. An increase in the average number of persons employed is shown for all of the industries in this class, except Earthen, Plaster, and Stone Ware; Electrical Apparatus and Appliances; Fancy Articles, etc.; and Saddlery and Harness.

The range of unemployment was wider in Agricultural Implements; Cordage and Twine; Corks, Bungs, and Taps; Earthen, Plaster, and Stone Ware; Fancy Articles, etc.; Flax, Hemp, Jute, and Linen Goods; Glue, Isinglass, and Starch; and Saddlery and Harness and narrower in Electrical Apparatus and Appliances; Fine Arts and Taxidermy; and Liquors: Malt, Distilled, and Fermented.

The final table presents the industries of the fourth class:

	Increa	SE (+), OF COMPARI	DECREASE D WITH 1	: (—), in 1: 395 in —	806 AS
Industries.	Average Number of Days in Operation	Average Proportion of Busi- ness Done	Average Yearly Earnings	Average Number of Persons Employed	" Range "
Artisans' tools,	-0.23	-3.58	+\$10.40	+85	+58
Awnings, sails, tents, etc.,	-0.22	-0.91	-52.50	-6	<u>22</u>
Bicycles, tricycles, etc.,	1.25	-10.10	+39.85	-48	+888
Boots and shoes,	-2.84	-3.43	+10.87	-917	+618
Boxes (paper and wooden),	—7.66	-2.05	-6.06	—116	-202
Brooms, brushes, and mops,	-11.37	-5.00	+4.48	_6	+120
Burial cases, caskets, coffins, etc.,	-1.20	-6.00	+8.10	-3	15
Buttons and dress trimmings,	-18.82	6.54	-20.21	+7	+171
Carpetings,	58.49	-5.25	-29.29	384	+931
Carriages and wagons,	-10.87	-3.80	-2.40	-201	-39
Chemical preparations (compounded), .	-6.82	7.83	+4.27	-13	+18
Clocks, watches, and jewelry,	-16.21	-6.21	-15.83	—279	+83
Clothing,	-12.12	-4.09	-28.30	295	+217
Cotton goods,	-17.83	9.89	+2.59	-1,737	+10,683
Cotton, woollen, and other textiles,	-14.50	-27.50	-10.68	+119	+253
Crayons, pencils, crucibles, etc.,	-5.05	-12.50	+46.42	5	-9
Dyestuffs,	-49.44	-14.63	-27.81	-26	+57
Emery and sand paper and cloth, etc., .	-2.01	-4.40	-9.58	+50	+40
Food preparations,	-1.05	-0.75	+4.18	+75	516
Furniture,	-3.80	-2.84	-9.77	-209	+54
Glass,	-28.89	-10.43	-40.32	-46	+216
Hair work (animal and human),	-1.73	-5.57	-46.79	-4	+8
Hosiery and knit goods,	-10.37	5.60	-28.10	+41	+347
Ivory, bone, shell, and horn goods, etc., .	-3.60	-6.12	8.48	-110	108
Leather,	-8.60	-8.16	-10.84	821	+263
Liquors and beverages (not spirituous), .	-2.62	-4.72	-15.81	-15	-28
Machines and machinery,	-5.39	-2.30	+2.38	+1,149	+310

	Increase (+), or Decrease (-), in 1896 as Compared with 1895 in -							
Industries.	Days in	Average Proportion of Busi- ness Done	Average Yearly Earnings	Average Number of Persons Employed	"Range"			
Metals and metallic goods,	—5.8 5	-2.80	-2.21	-452	215			
Mixed textiles,	-35.34	-10.16	-18.60	-47	+127			
Models, lasts, and patterns,	-4.12	-2.10	-5.90	+11	+25			
Musical instruments and materials,	-16.99	-4.87	-11.88	-376	+3 00			
Paints, colors, and crude chemicals,	-11.95	-3.74	+29.29	34	-14			
Paper and paper goods,	-14.78	-3.19	-2.74	—53 5	+527			
Perfumes, toilet articles, etc.,	10.38	-7.50	+16.29	-4	-5			
Photographs and photographic materials,	-11.08	-1.17	-19.69	+29	+12			
Print works, dye works, and bleacheries,	16.88	-4.49	-4.61	167	+674			
Rubber and elastic goods,	-17.16	-7.15	-7.08	-402	+902			
Silk and silk goods,	-87.32	-5.00	+4.04	-230	+329			
Sporting and athletic goods,	-20.88	—5.55	-6.92	+14	+140			
Stone,	0.66	-1.76	+10.10	-18	+142			
Straw and palm leaf goods,	-1.60	-0.43	+28.81	-146	+96			
Tallow, candles, soap, and grease,	6.86	-4.43	-3.95	-7	+11			
Tobacco, snuff, and cigars,	-3.45	-2.40	+1.54	-66	-84			
Trunks and valises,	-39.25	-15.85	+7.18	-17	+6			
Whips, lashes, and stocks,	-24.23	-17.20	-23.10	-35	+5			
Wooden goods,	-2.36	-4.12	+5.01	-187	-252			
Woollen goods,	-82.54	-18.31	-7.91	-2,468	+2,057			
Worsted goods,	-26.29	-15.26	-25.15	979	+4,909			

The industries grouped in the above table show a decrease both in average number of days in operation and in average proportion of business done. All of the nine leading industries are included in this class. The following industries show an increase in average yearly earnings:

Artisans' Tools. Bicycles, Tricycles, etc. Boots and Shoes. Brooms, Brushes, and Mops. Burial Cases, Caskets, Coffins, etc. Chemical Preparations (Compounded). Cotton Goods. Crayons, Pencils, Crucibles, etc.

Food Preparations.

Machines and Machinery. Paints, Colors, and Crude Chemicals. Perfumes, Toilet Articles, etc. Silk and Silk Goods. Stone. Straw and Palm Leaf Goods. Tobacco, Snuff, and Cigars. Trunks and Valises. Wooden Goods.

Those showing a decrease in average yearly earnings are:

Awnings, Sails, Tents, etc. Boxes (Paper and Wooden). Buttons and Dress Trimmings. Carpetings. Carriages and Wagons. Clocks, Watches, and Jewelry.

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Clothing.

Cotton, Woollen, and other Textiles.

Dyestuffs.

Emery and Sand Paper and Cloth.

etc. Furniture

Glass.

Hair Work (Animal and Human). Hosiery and Knit Goods.

Ivory, Bone, Shell, and Horn Goods, etc.

Leather.

Liquors and Beverages (Not Spirituous).

Metals and Metallic Goods.

Mixed Textiles.

Models, Lasts, and Patterns.

Musical Instruments and Materials.

Paper and Paper Goods.

Photographs and Photographic Materials.

Print Works, Dye Works, and Bleacheries

Rubber and Elastic Goods.

Sporting and Athletic Goods.

Tallow, Candles, Soap, and Grease.

Whips, Lashes, and Stocks.

Woollen Goods.

Worsted Goods.

A decrease in the average number of persons employed is shown for all of the industries except the following:

Artisans' Tools.

Buttons and Dress Trimmings.

Cotton, Woollen, and other Textiles. Emery and Sand Paper and Cloth,

etc. Food Preparations. Hosiery and Knit Goods.

Machines and Machinery.

Models, Lasts, and Patterns.

Photographs and Photographic Materials.

Sporting and Athletic Goods.

The range of unemployment in 1896 as compared with 1895 was wider in the following industries:

Artisans' Tools.

Bicycles, Tricycles, etc.

Boots and Shoes.

Brooms, Brushes, and Mops.

Buttons and Dress Trimmings.

Carpetings.

Chemical Preparations (Compound-

eu

Clocks, Watches, and Jewelry.

Clothing.

Cotton Goods.

Cotton, Woollen, and other Textiles.

Dyestuffs.

Emery and Sand Paper and Cloth,

etc.

Furniture.

Glass.

Hair Work (Animal and Human).

Hosiery and Knit Goods.

Leather.

Machines and Machinery.

Mixed Textiles.

Models, Lasts, and Patterns.

Musical Instruments and Materials.

Paper and Paper Goods.

Photographs and Photographic Ma-

terials.

Print Works, Dye Works, and

Bleacheries.

Rubber and Elastic Goods.

Silk and Silk Goods.

Sporting and Athletic Goods.

Stone

Straw and Palm Leaf Goods.

Tallow, Candles, Soap, and Grease.

Trunks and Valises,

Whips, Lashes, and Stocks.

Woollen Goods.

Worsted Goods.

Those showing a narrower range of unemployment are:

Awnings, Sails, Tents, etc.
Boxes (Paper and Wooden).
Burial Cases, Caskets, Coffins, etc.
Carriages and Wagons.
Crayons, Pencils, Crucibles, etc.
Food Preparations.
Ivory, Bone, Shell, and Horn Goods,

Liquors and Beverages (Not Spirituous).

Metals and Metallic Goods.

Paints, Colors, and Crude Chemicals.

Perfumes, Toilet Articles, etc.

Tobacco, Snuff, and Cigars.

Wooden Goods.

In Ink, Mucilage, and Paste, an increase in the average number of days in operation, and no change in proportion of business done is shown, together with an increase in average yearly earnings, a decrease in the average number of persons employed, and a narrower range of unemployment.

In the next table is given a graphic portrayal of the condition in each industry in 1896 as compared with 1895, with respect to the amount of capital invested, value of goods made and work done, amount paid in wages during the year, and average number of persons employed. An increase in any of these items is indicated by the sign (+), a decrease by the sign (—), and no change by the sign (=).

		INCREASE (+), Decrease 6 as Compar	(-), or No	Change (—), 95 in —
Industries.	Amount of Capital Invested	Value of Goods Made and Work Done	Total Amount Paid in Wages	Average Number of Persons Employed	
Agricultural implements,		_	+	_	+
Arms and ammunition,		_	+	+	-
Artisans' tools,		-	+	+	+
Awnings, sails, tents, etc.,		+	_	_	_
Bicycles, tricycles, etc.,		+	_	+	_
Boots and shoes,		_			_
Boxes (paper and wooden),		_	_	_	_
Brick, tiles, and sewer pipe,		+	+	+	+
Brooms, brushes, and mops,		-	_	+	_
Burial cases, caskets, coffins, etc., .		+	_	_	
Buttons and dress trimmings,		_	_	_	+
Carpetings,		+	_	_	_
Carriages and wagons,		_	_	_	_
Cement, kaolin, lime, and plaster, .		l – '	_	+	_
Chemical preparations (compounded),		+	_	_	_
Clocks, watches, and jewelry,		_	_	_	-
Clothing,		l –	_	_	-
Cooking, lighting, and heating apparatus,		-	_	+	+

	Increase (- in 164	+), Decrease 6 as Compan	(—), or No	Charge (==), DS in ==
Industries.	Amount of Capital Invested	Value of Goods Made and Work Done	Total Amount Paid in Wages	Average Number of Persons Employed
Cordage and twine,	_	+	+	+
Corks, bungs, and taps,	+	+	+	+
Cotton goods,	_	-	_	I –
Cotton, woollen, and other textiles,	-	_	+	+
Crayons, pencils, crucibles, etc.,	-	_	+	_
Drugs and medicines,	+	+	_	i –
Dyestuffs,	-	-	_	-
Earthen, plaster, and stone ware,	-	_	_	-
Electrical apparatus and appliances,	-	-	_	I —
Electroplating,	_	+	+	1 –
Emery and sand paper and cloth, etc.,	+	+	+	+
Fancy articles, etc.,	_	-	_	_
Fertilizers,	+	_	+	+
Fine arts and taxidermy,	_	+	+	+
Fireworks and matches,	_	-	+	+
Flax, hemp, jute, and linen goods,	+	-	_	+
Food preparations,	_	-	+	+
Furniture,	_	-	_	_
Glass,	_	-	_	_
Glue, isinglass, and starch,	+	+	+	+
Hair work (animal and human),	_	-	-	-
Hose: rubber, linen, etc.,	+	+	+	i +
Hosiery and knit goods,		-	_	+
Ink, mucilage, and paste,	-	_	_	-
Ivory, bone, shell, and horn goods, etc., .	_	-	_	<u> </u>
Leather,	_	-	_	-
Liquors and beverages (not spirituous), .	_	-	_	-
Liquors: malt, distilled, and fermented, .	<u> </u>	-	+	+
Lumber,	_	-	_	-
Machines and machinery,	+	+	+	+
Metals and metallic goods,	_	-	_	-
Mixed textiles,	+	-	_	-
Models, lasts, and patterns,	_	-	+	+
Musical instruments and materials,	_	_	_	_
Oils and illuminating fluids,	-	+	+	+
Paints, colors, and crude chemicals,	-	_	-	-
Paper and paper goods,	_	-	_	i –
Perfumes, toilet articles, etc.,	-	_	_	! -
Photographs and photographic materials, .	-	+	+	<u> </u>
Polishes and dressing,	+	+	-	=
Printing, publishing, and bookbinding, .	-	_	+	_
Print works, dye works, and bleacheries, .	+	-	_	<u> </u>
Railroad construction and equipment,	+	+ .	+	+
Rubber and elastic goods,	_	_	-	-
Saddlery and harness,	-	-	_	_
Scientific instruments and appliances,	+	-	+	+
Shipbuilding,	-	-	+	+
Silk and silk goods,	_	-	_	_
Sporting and athletic goods,	+	_	+	+

	Increase (+), Decrease (), or No Change (), in 1896 as Compared with 1895 in—					
Industriks.			Amount of Capital Invested	Value of Goods Made and Work Done	Total Amount Paid in Wages	Average Number of Persons Employed
Stone,			_	+	+	_
Straw and paim leaf goods, .			l –	+	+	
Tallow, candles, soap, and grease	,		_	_	_	_
Tobacco, snuff, and cigars, .			+	_	-	_
Toys and games (children's),				+	+	+
Trunks and valises,			+	_	<u>.</u>	l <u>-</u>
Whips, lashes, and stocks, .			+	_		_
Wooden goods,					_	l _
Woollen goods,			_		_	_
Worsted goods,			_	_	_	_
ALL INDUSTRIES,						

All Industries, in the aggregate, show a decreased amount of capital invested, decreased product value, a smaller amount disbursed in wages, and a smaller average number of persons employed. The same statement applies to the following industries. 30 in number:

Boots and Shoes.
Boxes (Paper and Wooden).
Carriages and Wagons.
Clocks, Watches, and Jewelry.
Clothing.
Cotton Goods.
Dyestuffs.
Earthen, Plaster, and Stone Ware.
Electrical Apparatus and Appliances.
Fancy Articles, etc.
Furniture.
Glass.
Hair Work (Animal and Human).
Ink, Mucilage, and Paste.
Ivory, Bone, Shell, and Horn Goods, etc.

Leather. Liquors and Beverages (Not Spirituous). Lumber. Metals and Metallic Goods. Musical Instruments and Materials. Paints, Colors, and Crude Chemicals. Paper and Paper Goods. Perfumes, Toilet Articles, etc. Rubber and Elastic Goods. Saddlery and Harness. Silk and Silk Goods. Tallow, Candles, Soap, and Grease. Wooden Goods. Woollen Goods. Worsted Goods.

The following seven industries show an increased amount of capital invested, value of goods made and work done, amount paid in wages, and average number of persons employed:

Brick, Tiles, and Sewer Pipe.
Corks, Bungs, and Taps.
Emery and Sand Paper and Cloth,
etc.
Glue, Isinglass, and Starch.

Hose: Rubber, Linen, etc.

Machines and Machinery.

Railroad Construction and Equipment.

An increased amount of capital invested, but a decrease in value of goods made, amount paid in wages, and average number of persons employed, is shown for the following nine industries ·

Awnings, Sails, Tents, etc. Burial Cases, Caskets, Coffins, etc. Carpetings. Chemical Preparations (Compounded). Mixed Textiles.

Print Works, Dve Works, and Bleacharies. Tobacco, Snuff, and Cigars. Trunks and Valises. Whips, Lashes, and Stocks.

The following six industries show a decrease in capital invested but an increase in each of the other items:

Artisans' Tools Cordage and Twine. Fine Arts and Taxidermy. Oils and Illuminating Fluids. Photographs and Photographic Ma-Toys and Games (Children's).

An increase in the amount of capital invested and in value of goods made and work done, together with a decrease in amount of wages paid and average number of persons employed is shown for Drugs and Medicines. The same facts obtain for Polishes and Dressing, with the exception that there is no change in the average number of persons employed. decreased capital and output, with an increased amount paid in wages, and a larger average number of persons employed, is shown for Cooking, Lighting, and Heating Apparatus; Cotton, Woollen, and other Textiles; Fireworks and Matches; Food Preparations; Liquors: Malt, Distilled, and Fermented; Models, Lasts, and Patterns; and Shipbuilding. A decreased capital, larger product, decreased amount paid in wages, and a larger average number of persons employed is shown for Agricultural Implements; while a decreased capital, with increased product value and amount paid in wages, but a smaller average number of persons employed is shown for Arms and Ammunition; Electroplating; Stone; and Straw and Palm Leaf Goods. Bicycles, Tricycles, etc. exhibits an increased amount of capital invested, a smaller value of output, a larger amount paid in wages, and a smaller average number of persons employed. Brooms, Brushes, and Mops exhibits a decrease in capital, value

of product, and average number of persons employed, with a larger amount paid in wages. The same facts are true of Cement, Kaolin, Lime, and Plaster; Crayons, Pencils, Crucibles, etc.; and Printing, Publishing, and Bookbinding. A decrease in each of the items, except average number of persons employed, which shows an increase, is found in Buttons and Dress Trimmings and Hosiery and Knit Goods. A decrease in the value of goods made and work done, together with an increase in each of the other items, is shown for Fertilizers; Scientific Instruments and Appliances; and Sporting and Athletic Goods. Flax, Hemp, Jute, and Linen Goods exhibits an increase in capital and in average number of persons employed, but a decrease in value of output and amount paid in wages.

The following table reproduces the leading facts relative to All Industries from the presentation on pages 145 to 147:

CLASSIFICATION.	1895	1896	Increase (+), or Decrease (), in 1896		
			Amounts	Percent- ages	
Number of private firms,	8,529	8,493	-36	-1.02	
Number of corporations,	1,036	1,070	+34	+3.28	
Number of partners,	5,577	5,482	—95	-1.70	
Number of stockholders,	44,928	46,143	+1,215	+2.70	
Amount of capital invested,	\$390,932,763	\$373,582,161	-\$17,350,602	-4.44	
Value of stock used,	\$ 318,753,542	\$ 302,272,325	-\$16,481,217	-5.17	
Value of goods made and work done, .	\$569,097,021	\$537,720,294	—\$31,376,727	-5.51	
Persons employed,	1				
Average number,	307,590	298,546	-9,044	-2.94	
Smallest number,	258,776	235,110	-23,666	-9.15	
Greatest number,	851,915	353,440	+1,525	+0.48	
Excess of greatest over smallest					
number,	93,139	118,330	+25,191	+27.05	
Total amount paid in wages,	\$130,845,551	\$126,913,372	-83,932,179	-3.01	
Average yearly earnings,	\$425.39	\$425.16	-\$0.23	-0.05	
Average proportion of business done, .	62.56	58.98	-8.58	-5.79	
Average number of days in operation, .	291.56	279.43	-12.13	-4.16	

The changes in each of the elements summarized in the foregoing table, when reduced to the basis of percentages, are at once apparent. These changes, of course, indicate that the condition of the industries, in the aggregate, was much poorer in 1896 than in the previous year. The increase in the number of corporations and stockholders, it should be borne in mind, is due to changes from a private firm to a corporate basis on the part of establishments making return in each year. The same cause accounts for the percentages of decrease in the number of private firms and in the number of partners.

These returns are rendered by identical establishments in each year, and in the 4,609 considered in this comparison, capital decreased to the extent of 4.44 per cent, value of stock used decreased 5.17 per cent, and the value of goods made and work done decreased 5.51 per cent.

The aggregate average number of persons employed exhibits a decrease of 2.94 per cent, and the total amount paid in wages

		In	DUST	RIRS.			Number of Estab- lishments Con- sidered	Amount of Capital Invested	Average Number of Persons Employed
1	Boots and shoes,						605	\$19,990,145	42,263
2	Carpetings, .						12	6,020,485	4,232
3	Cotton goods,						169	112,902,817	78,058
4	Leather, .						143	7,329,970	6,347
5	Machines and ma	ch	inery	, .			371	23,733,634	18,082
6	Metals and metal	lic	good	ls,			382	17,633,004	14,242
7	Paper and paper	go	ods,				128	23,670,894	11,112
8	Woollen goods,						122	19,186,201	13,671
9	Worsted goods,		•			•	27	15,843,809	11,318

[Note. It is proper to explain certain designations used in the above table. By "Industry value created above the value of stock and materials consumed. The values presented in this from the total value of goods made and work done in each of the specified industries, the value division of the proceeds of each industry, one part of this industry product is paid to the labor fund from which are paid freights, insurance, interest on loans (credit capital), interest on stock those for stock and wages. The remainder, if any, is the profit of the employer. The entire comes a "Profit and Minor Expense Fund," and is thus designated in the table. Of course, it we have enumerated, paid out of this balance, are in themselves considerable in amount, and for materials (stock), and wages.]

The note presented with this table explains certain designations used in it. The largest industry product, per \$1,000 of capital invested, is found in Boots and Shoes, \$1,703.92. No other industry approaches this figure. The nearest to it, however, is Leather, the industry product being \$806.79. Following this industry, ranks Machines and Machinery and Metals and Metallic Goods, in which the industry products are \$764.27 and \$728.52, respectively. Next come Woollen Goods and

shows a decline of 3.01 per cent. The range of unemployment was wider in 1896 than in 1895. A decrease is also shown in average yearly earnings, while the average proportion of business done, based upon the full productive capacity of the establishments, was 5.72 per cent less in 1896 than in 1895. Each of the employés worked 12.13 days less in 1896 than in 1895.

The next table presents the actual product per \$1,000 of capital invested in each of the nine leading industries, with the average product per employé, the percentages of industry product paid in wages, and the percentages devoted to other expenses:

Total			INDUSTRY	PRODUCT	PERCENT INDUSTRY		
Amount Paid in Wages During the Year	Industry Product	Profit and Minor Expense Fund	Per \$1,000 of Capital	Average per Employé	Devoted to Profit and Minor Expenses	Paid in Wages	
\$20,834,331	\$34,061,691	\$13,227,360	\$1,703.92	\$805.95	38.83	61.17	1
1,443,472	2,371,772	928,300	393.95	560.44	89.14	60.86	2
25,865,194	86,848,019	10,982,825	326.37	472.06	29.81	70.19	8
2,984,515	5,913,775	2,929,260	806.79	931.74	49.53	50.47	4
9,731,509	18,138,982	8,407,473	764.27	1,003.15	46.85	53.65	
7,218,118	12,845,987	5,627,869	728.52	901.98	43.81	56.19	6
4,476,285	9,419,292	4,943,007	897.93	847.67	52.48	47.52	1 7
4,963,615	8,269,142	3,305,527	430.99	604.87	39.97	60.08	1
3,848,327	6,965,696	8,117,869	458.97	615.45	44.75	55.25	1

Product" is meant the actual result of the productive forces in the industry, that is, the added and the following tables under the designation "Industry Product" are obtained by deducting of stock used, the difference being added value or actual product due to the industry. In the force in the form of wages, this being labor's share of the product. The balance constitutes a (fixed or invested capital), rents, commissions, salaries, etc.; in fact, all expenses other than balance of the industry product remaining after the deduction of the amount paid in wages, bewill be understood that the term "Minor Expense" is relative. The expenses, some of which are only to be classed as "Minor" in comparison with the generally larger amounts expended

Worsted Goods, the industry products per \$1,000 of capital being \$430.99 and \$453.97, respectively. Paper and Paper Goods follows, with an industry product per \$1,000 of capital of \$397.93, and is in turn followed by Carpetings, with an industry product of \$393.95. Cotton Goods ranks lowest among the industries in the selected list, the industry product per \$1,000 of capital being \$326.37.

These figures afford an indication of the efficiency of the

capital invested in these industries during 1896, and those which present the average industry product per employé may be considered as indicating the efficiency of labor. With respect to this point, Machines and Machinery leads the other industries, the average product per employé being \$1,003.15. Not far below it is Leather, in which an average of \$931.74 appears, and Metals and Metallic Goods, in which an average of \$901.98 is shown. Following in the order named, with averages as specified, are Paper and Paper Goods, \$847.67; Boots and Shoes, \$805.95; Worsted Goods, \$615.45; Woollen Goods, \$604.87; Carpetings, \$560.44; and Cotton Goods, \$472.06.

When the percentage of industry product paid in wages is considered, we find that Cotton Goods leads, the percentage being 70.19. Next rank Boots and Shoes, Carpetings, and Woollen Goods, the percentages being 61.17, 60.86, and 60.03, respectively. Metals and Metallic Goods follows, with a percentage of 56.19, and is in turn followed by Worsted Goods with a percentage of 55.25; Machines and Machinery, 53.65; and Leather, 50.47. In Paper and Paper Goods, ranking lowest in this comparison, the percentage is 47.52. These percentages of industry product paid in wages are the complements of the percentages of industry product devoted to profit and minor expenses, these two items aggregating 100 per cent or the whole of the industry product.

In the following presentation, the rank of the different industries for 1896, as regards the amount of industry product per \$1,000 of capital, is compared with the rank of the same industries for 1895, as derived from the report on Annual Statistics of Manufactures for that year:

1895.

Boots and Shoes.
Leather.
Metals and Metallic Goods.
Machines and Machinery.
Carpetings.
Worsted Goods.
Woollen Goods.
Paper and Paper Goods.
Cotton Goods.

1896.

Boots and Shoes.
Leather.
Machines and Machinery.
Metals and Metallic Goods.
Worsted Goods.
Woollen Goods.
Paper and Paper Goods.
Carpetings.
Cotton Goods.

In the above comparison, Boots and Shoes, Leather, and Cotton Goods retain the same position in each year. The places occupied by Machines and Machinery and Metals and Metallic Goods are reversed. Worsted Goods, which ranked sixth in 1895, ranks fifth in 1896; Woollen Goods, which ranked seventh in 1895, ranks sixth in 1896. Paper and Paper Goods, which ranked eighth in 1895, ranks seventh in 1896; and Carpetings, which ranked fifth in 1895, fell to eighth position in 1896.

With respect to the average industry product per employé, the rank of the industries in each of the years appears in the following table:

1895.

Machines and Machinery.
Leather
Metals and Metallic Goods.
Paper and Paper Goods.
Boots and Shoes.
Woollen Goods.
Carpetings.
Worsted Goods.
Cotton Goods.

1896.

Machines and Machinery.
Leather.
Metals and Metallic Goods.
Paper and Paper Goods.
Boots and Shoes.
Worsted Goods.
Woollen Goods.
Carpetings.
Cotton Goods.

From the above table it is seen that six of the industries retain the same position in 1896 as in 1895; they are Machines and Machinery, Leather, Metals and Metallic Goods, Paper and Paper Goods, Boots and Shoes, and Cotton Goods. Worsted Goods, Woollen Goods, and Carpetings each changed positions in 1896.

The next comparison relates to the percentage of industry product paid in wages, the industries ranking as follows:

1895.

Cotton Goods.
Boots and Shoes.
Worsted Goods.
Carpetings.
Woollen Goods.
Metals and Metallic Goods.
Machines and Machinery.
Leather.
Paper and Paper Goods.

1896.

Cotton Goods.
Boots and Shoes.
Carpetings.
Woollen Goods.
Metals and Metallic Goods.
Worsted Goods.
Machines and Machinery.
Leather.
Paper and Paper Goods.

In this comparison, Cotton Goods, Boots and Shoes, Machines and Machinery, Leather, and Paper and Paper Goods retain the rank in 1896 which was held in 1895. Carpetings, which ranked fourth in 1895, ranks third in 1896; Woollen Goods, ranking fifth in 1895, ranks fourth in 1896; Metals and Metallic Goods rose from the sixth place in 1895 to fifth position in 1896; while Worsted Goods fell from third place in 1895 to sixth place in 1896.

In this connection, we present a series of separate tables for the nine leading industries for the purpose of comparison between the years 1895 and 1896, bringing forward for that purpose data contained in the table on pages 182 and 183. The first relates to Boots and Shoes.

Boots and Shoes. [Comparisons for 605 Establishments.]

CLASSIFICATION.	1895	1896
Amount of capital invested,	\$23,172,849	\$19,990,145
Value of goods made and work done (gross product),	\$89,938,212	\$87,945,168
Value of stock used and other materials consumed in production, .	\$55,559,505	\$53,883,477
Industry product (gross product less value of stock and materials),	\$34,378,707	\$34,061,691
Wages (labor's direct share of product),	\$20,838,632	\$20,834,331
Profit and minor expense fund (industry product less wages),	\$13,540,075	\$13,227,360
Percentage of industry product paid in wages,	60.61	61.17
Percentage of industry product devoted to profit and minor expenses,	89.89	38.83
Percentage of profit and minor expense fund of capital invested, .	58.44	66.17

The percentages of industry product paid in wages in 1895 and 1896 were 60.61 and 61.17, respectively, a slight increase in the last named year. The percentage of industry product devoted to profit and minor expenses shows a decrease, being 39.39 in 1895 and 38.83 in 1896. The percentage which this profit and minor expense fund forms of capital invested was 66.17 in 1896 as against 58.44 in 1895; that is to say, a larger portion of the amount remaining in this industry, after eliminating the cost of stock, was devoted to wages in 1896 than in 1895, leaving a slightly smaller amount for the payment of expenses (other than wages and stock) and for profit, and this amount formed a larger percentage of the total capital in the industry in 1896 than in 1895.

A similar comparison for Carpetings follows:

Carpetings. [Comparisons for 12 Establishments.]

Classification.	1895	1896
Amount of capital invested,	\$ 6,008,497	\$6,020,485
Value of goods made and work done (gross product),	\$7,218,798	\$5,674,637
Value of stock used and other materials consumed in production, .	\$4,336,556	\$8,302,865
Industry product (gross product less value of stock and materials),	\$2,877,242	\$2,371,772
Wages (labor's direct share of product),	\$1,709,689	\$1,443,472
Profit and minor expense fund (industry product less wages), .	\$1,167,553	\$928,300
Percentage of industry product paid in wages,	59.42	60.86
Percentage of industry product devoted to profit and minor expenses,	40.58	39.14
Percentage of profit and minor expense fund of capital invested, .	19.43	15.42

The percentage of industry product paid in wages in this industry in 1895 and 1896 was 59.42 and 60.86, respectively, an increase in the last named year. Eliminating wages, the fund devoted to profit and minor expenses declined from 40.58 per cent in 1895 to 39.14 per cent in 1896, and this fund formed but 15.42 per cent of capital invested in 1896 as against 19.43 per cent in 1895.

The next table presents a comparison for Cotton Goods.

Cotton Goods. [Comparisons for 169 Establishments.]

CLASSIFICATION.	1895	1896
Amount of capital invested,	\$116,141,614	\$112,902,817
Value of goods made and work done (gross product),	\$89,615,751	\$87,146,000
Value of stock used and other materials consumed in production, .	\$46,244,435	\$50,297,988
Industry product (gross product less value of stock and materials),	\$43,871,816	\$36,848,019
Wages (labor's direct share of product),	\$26,234,125	\$25,865,194
Profit and minor expense fund (industry product less wages), .	\$17,187,191	\$10,982,82
Percentage of industry product paid in wages,	60.49	70.19
Percentage of industry product devoted to profit and minor expenses,	89.51	29.81
Percentage of profit and minor expense fund of capital invested, .	14.76	9.78

In this industry, the percentage of industry product paid in wages increased in 1896 as compared with 1895, the percentages being 70.19 and 60.49, respectively. Of course, the percentage of industry product devoted to profit and minor expenses correspondingly decreased to 29.81 in 1896 as against 39.51 in 1895. The profit and minor expense fund formed 9.73 per cent of capital in 1896 as against 14.76 per cent in 1895.

The next table relates to Leather.

CLASSIFICATION.	1895	1896
Amount of capital invested,	\$8,479,094	\$7,329,970
Value of goods made and work done (gross product),	\$22,379,841	\$19,041,544
Value of stock used and other materials consumed in production, .	\$15,746,203	\$13,127,769
Industry product (gross product less value of stock and materials),	\$6,633,638	\$5,913,775
Wages (labor's direct share of product),	\$3,448,203	\$2,984,515
Profit and minor expense fund (industry product less wages),	\$3,185,435	\$2,929,260
Percentage of industry product paid in wages,	51.98	50.47
Percentage of industry product devoted to profit and minor expenses,	48.02	49.53
Percentage of profit and minor expense fund of capital invested, .	87.57	39.96

Leather. [Comparisons for 143 Establishments.]

In this industry, we find practically the same conditions in each year, the percentages of industry product paid in wages being 50.47 in 1896 as against 51.98 in 1895. The percentage of industry product devoted to profit and minor expenses shows a slight increase, rising from 48.02 in 1895 to 49.53 in 1896. The percentage which the profit and minor expense fund formed of capital invested was 37.57 in 1895 and 39.96 in 1896.

The next table presents a comparison for Machines and Machinery.

Classification.	1895	1896
Amount of capital invested,	\$23,167,426	\$23,733,63
Value of goods made and work done (gress product),	\$26,027,029	\$28,439,920
Value of stock used and other materials consumed in production, .	\$9,931,227	\$10,350,93
Industry product (gross product less value of stock and materials),	\$16,095,802	\$18,138,96
Wages (labor's direct share of product),	\$9,072,876	\$9,731,50
Profit and minor expense fund (industry product less wages),	\$7,022,926	\$8,407,47
Percentage of industry product paid in wages,	56.37	53.6
Percentage of industry product devoted to profit and minor expenses,	43.63	46.3
Percentage of profit and minor expense fund of capital invested,	30.31	35.4

The percentage of industry product paid in wages in this industry fell from 56.37 in 1895 to 53.65 in 1896. A corresponding increase is found in the percentage of industry product devoted to profit and minor expenses rising from 43.63 in 1895 to 46.35 in 1896. The percentage of profit and minor expense fund of capital invested also rose, the increase being from 30.31 in 1895 to 35.42 in 1896.

A comparison for Metals and Metallic Goods follows:

Metals and Metallic Goods. [Comparisons for 382 Establishments.]

CLASSIFICATION.	1895	1896
Amount of capital invested,	\$19,177,940	\$17,633,004
Value of goods made and work done (gross product),	\$24,484,118	\$23,472,316
Value of stock used and other materials consumed in production, .	\$11,021,656	\$10,626,320
Industry product (gross product less value of stock and materials),	\$18,462,462	\$12,845,987
Wages (labor's direct share of product),	87,479,648	\$7,218,118
Profit and minor expense fund (industry product less wages),	85,982,819	\$5,627,866
Percentage of industry product paid in wages,	55.56	56.19
Percentage of industry product devoted to profit and minor expenses,	44.44	43.81
Percentage of profit and minor expense fund of capital invested,	31.20	81.92

In this industry, the percentage of industry product devoted to profit and minor expenses declined from 44.44 in 1895 to 43.81 in 1896. The percentage of industry product paid in wages rose correspondingly from 55.56 in 1895 to 56.19 in 1896. The percentage of profit and minor expense fund of capital invested rose from 31.20 in 1895 to 31.92 in 1896.

The facts for Paper and Paper Goods are shown in the next table.

Paper and Paper Goods. [Comparisons for 123 Establishments]

CLASSIFICATION.	1895	1896
Amount of capital invested,	\$24,682,633	\$23,670,89
Value of goods made and work done (gross product),	\$25,028,375	\$23,044,589
Value of stock used and other materials consumed in production, .	\$14,830,407	\$18,625,296
Industry product (gross product less value of stock and materials),	\$10,197,968	\$9,419,29
Wages (labor's direct share of product),	\$4,723,678	\$4,476,28
Profit and minor expense fund (industry product less wages),	\$5,474,290	\$4,943,00
Percentage of industry product paid in wages,	46.82	47.52
Percentage of industry product devoted to profit and minor expenses,	53.68	52.44
Percentage of profit and minor expense fund of capital invested, .	22.18	20.8

In this industry, the percentage of industry product paid in wages rose from 46.32 in 1895 to 47.52 in 1896, while the percentage of industry product devoted to profit and minor expenses fell correspondingly from 53.68 in 1895 to 52.48 in 1896. The percentage of profit and minor expense fund of capital invested also declined from 22.18 in 1895 to 20.88 in 1896.

The next table relates to Woollen Goods.

CLASSIFICATION.	1695	1896
Amount of capital invested,	\$21,932,897	\$19,186,201
Value of goods made and work done (gross product),	\$24,899,606	\$19,662,182
Value of stock used and other materials consumed in production, .	\$14,410,166	\$11,393,040
Industry product (gross product less value of stock and materials),	\$10,489,440	\$8,269,142
Wages (labor's direct share of product),	\$5,987,401	\$4,963,615
Profit and minor expense fund (industry product less wages),	\$4,502,089	\$3,305,527
Percentage of industry product paid in wages,	57.08	60.03
Percentage of industry product devoted to profit and minor expenses,	42.92	89.97
Percentage of profit and minor expense fund of capital invested, .	20.58	17.23

Woollen Goods. [Comparisons for 122 Establishments.]

In this industry, we note an increase in the percentage of industry product paid in wages, which rose from 57.08 in 1895 to 60.03 in 1896, matched by a corresponding decrease in the percentage of industry product devoted to profit and minor expenses, which declined from 42.92 in 1895 to 39.97 in 1896. The percentage of profit and minor expense fund of capital invested also shows a decrease, falling from 20.53 in 1895 to 17.23 in 1896.

The final table relates to Worsted Goods.

Worsted Goods.	[Comparisons	for 27	Establishments.]
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CLASSIFICATION.	1895	1806
Amount of capital invested,	\$15,700,666	\$15,343,806
Value of goods made and work done (gross product),	\$20,599,046	\$17,827,240
Value of stock used and other materials consumed in production, .	\$13,132,003	\$10,861,556
Industry product (gross product less value of stock and materials),	\$7,466,043	\$6,965,696
Wages (labor's direct share of product),	\$4,490,457	\$3,848,327
Profit and minor expense fund (industry product less wages),	\$2,975,586	\$3,117,360
Percentage of industry product paid in wages,	60.15	55.25
Percentage of industry product devoted to profit and minor expenses,	39.85	44.75
Percentage of profit and minor expense fund of capital invested, .	18.95	20.33

In this industry, a decrease in the percentage of industry product paid in wages is found; this percentage was 60.15 in 1895 and 55.25 in 1896. The percentage of industry product devoted to profit and minor expenses increased from 39.85 in 1895 to 44.75 in 1896, and the percentage of profit and minor expense fund of capital invested also rose from 18.95 in 1895 to 20.32 in 1896.

The returns permit of the following condensed general statements as regards the years 1895 and 1896 for the 4,609 establishments:

CAPITAL INVESTED.

The decrease in capital devoted to production in 1896 as compared with 1895, in All Industries, amounted to 4.44 per cent. In connection with this statement, it should be remembered that this does not necessarily imply the withdrawal of capital from the productive enterprises of the Commonwealth; and when taken in conjunction with the other facts relative to the condition of the industries during the year, it is apparent that while a statistical decrease is shown, this decrease may be due to the small amount of stock on hand and in process of manufacture, or to some of the items classed as capital, other than cash, as explained in the statement on page 157. In the nine leading industries, representing 65.80 per cent of the total capital as returned in 1896, the following facts appear: In 1896, an increase of capital is shown in two of these industries, namely, Carpetings, 0,20, and Machines and Machinery, 2.44 per cent. In each of the other leading industries, seven in number, the capital devoted to production exhibits a decrease in 1896 as compared with 1895, the percentages being as follows: Boots and Shoes, 13.73: Cotton Goods, 2.79: Leather, 13.55: Metals and Metallic Goods. 8.06; Paper and Paper Goods, 4.10; Woollen Goods, 12.52; and Worsted Goods, 2.27.

STOCK USED.

In All Industries, considered in the aggregate, the value of stock used in 1896 shows a decrease as compared with 1895 of 5.17 per cent. In the nine leading industries, the value of stock used in which amounted to 58.71 per cent of the aggregate value of stock used, as returned in 1896, the following percentages of decrease appear: Boots and Shoes, 3.02; Carpetings, 23.84; Leather, 16.63; Metals and Metallic Goods, 3.59; Paper and Paper Goods, 8.13; Woollen Goods, 20.94; and Worsted Goods, 17.30. Two of the industries, namely, Cotton Goods and Machines and Machinery, show an increase in the value of stock used in 1896 as compared with 1895, the percentages being 8.77 and 4.23, respectively.

GOODS MADE.

The aggregate value of goods made and work done in All Industries, in 1896 as compared with 1895, shows a decrease in value of 5.51 per cent. Only one of the nine leading industries, Machines and Machinery, exhibits an increase in product value, the percentage of increase being 9.46. In the other leading industries, the following percentages of decrease appear: Boots and Shoes, 2.22; Carpetings, 21.34; Cotton Goods, 2.76; Leather, 14.92; Metals and Metallic Goods, 4.13; Paper and Paper Goods, 7.93; Woollen Goods, 21.03; and Worsted Goods, 13.46. The aggregate value of the goods made and work done in these nine leading industries represented 58.08 per cent of the total value of goods made and work done, as returned by the 4.609 establishments in 1896.

PERSONS EMPLOYED.

The decrease in the average number of persons employed in 1896 as compared with 1895 was 9.044, or 2.94 per cent. A decrease is also shown in the smallest number of persons employed of 23,666 persons, or 9.15 per cent; while the number of persons employed at periods of employment of the greatest number shows an increase of 1,525 persons, or 0.43 per cent. The range of unemployment was wider in 1896 than in 1895. In only one of the nine leading industries, Machines and Machinery, an increase in the average number of persons employed appears, the percentage of increase being 6.79. In each of the other industries, the following percentages of decrease in the average number of persons employed are found: Boots and Shoes, 2.12; Carpetings, 8.32; Cotton Goods, 2.18; Leather. 11.45; Metals and Metallic Goods, 3.08; Paper and Paper Goods, 4.59; Woollen Goods, 15,29; and Worsted Goods, 7.96.

WAGES PAID.

The total amount paid in wages in the 4,609 establishments represented in the 77 industries decreased 3.01 per cent in 1896 as compared with 1895. In eight of the nine principal industries, the following percentages of decrease appear: Boots and Shoes, 0.02; Carpetings, 15.57; Cotton Goods, 1.41; Leather, 13.45; Metals and Metallic Goods, 3.50; Paper and Paper

Goods, 5.24; Woollen Goods, 17.10; and Worsted Goods, 14.30. An increase is shown for Machines and Machinery of 7.26 per cent.

The average yearly earnings per individual, without regard to sex or age, employed in the 77 industries, was \$425.39 in 1895 and \$425.16 in 1896, a decrease of 0.05 per cent. The range from highest to lowest average yearly earnings was from \$712.32 to \$300.83 in 1895 and from \$706.42 to \$282.25 in 1896. The higher earnings rule in the industries demanding greater skill and employing males chiefly, and the lower in factory industries employing a large proportion of females and young persons.

Proportion of Business Done.

The average proportion of business done reached 62.56 per cent in 1895 and 58.98 per cent in 1896 of the full productive capacity of the 4,609 establishments, a decrease of 5.72 per cent in the latter year.

Each of the employes worked, on an average, 291.56 days in 1895 and 279.43 days in 1896, a decrease of 12.13 days, or 4.16 per cent.



INDUSTRIAL CHRONOLOGY. 1896.



INDUSTRIAL CHRONOLOGY — 1896.

Abington. In February, W. E. Lyon, shoes, resumed operations after shutdown of several months. — Joseph E. Kimball, inventor of various machines used in shoe manufacture, died, aged 57 years. March. Co-operative company formed to manufacture shoes. April. Webster S. Wales, retired shoe manufacturer, died, aged 77 years. May. Patent granted Herbert H. Buffum on slug or nail strip. July. Nash & Gifford established manufacture of shoes. September. L. A. Crossett, shoes, reduced force; in October, increased. October. Patent granted Wm. B. Arnold on removable form for boots or shoes. November. Patent granted Herbert H. Buffum on sewing machine.

Adams. In January, Greylock Shirt Co. resumed operations after two weeks' shut-- Berkabire Cotton Manufacturing Co. petitioned Legislature to increase capital stock to \$2,000,000, --- L. L. Brown Paper Co. made changes and repairs. Berkshire Cotton Manufacturing Co. decided to erect office building. March. Vacant Zylonite Works purchased by Mannesmann Cycle Tube Co.; work of repairing and improvement begun in April. - Berkshire Cotton Manufacturing Co. began erection of steam plant consisting of seven 175 horse power boilers and smoke-stack 125 feet high; awarded contract for new storehouse and office building. April. Berkshire Cotton Manufacturing Co. set up new looms. - Adams Bros. Manufacturing Co., cottons, shut down one-half of plant. May. Mill No. 3 of Berkshire Cotton Manufacturing Co. dedicated; mill requires 1,000 operatives. --- Work of excavating for canal, 83 feet wide and 4.200 feet long, at plant of Mannesmann Cycle Tube Co. begun. — L. L. Brown Paper Co. decided to purchase engine of 8,000 horse power. June. Temporary shutdown occurred at plant of Renfrew Manufacturing Co., cottons. - Berkshire Cotton Manufacturing Co. started up No. 8 mill; in July, increased plant by purchase of additional land. July. Renfrew Manufacturing Co., cottons, added new machinery and started up .-Greylock Shirt Co, resumed operations after shutdown. August. Berkshire Cotton Manufacturing Co. built new dam 130 feet long and increased height of chimney; temporary shutdown occurred each week on account of lack of orders. --- Renfrew Manufacturing Co., cottons, shut down temporarily on account of dull trade. --- L. L. Brown Paper Co. shut down to allow new engine to be placed; mill damaged by fire. September. Berkshire Cotton Manufacturing Co. shut down for one week and resumed. -Weaving department of Renfrew Manufacturing Co., cottons, ran on short time; dyehouse shut down indefinitely; in October, resumed. October. Greylock Shirt Co. in-November. Repairs made at plant of Phillips Woollen Co. creased force. Plans made by Renfrew Manufacturing Co., cottons, for erection of addition to dyehouse, 100 x 100 feet, one story.

Agawam. In January, Worthy Paper Co. resumed operations after three months' shutdown for repairs. — Agawam Co., woollens, shut down a few days for repairs.

Amesbury. In February, Currier-Cameron Co., wheels, and Briggs Carriage Co. damaged by flood. March. Miller Bros., carriages, ran overtime. — Following firms shut down temporarily because of flood: Merrimac Hat Co., Currier-Cameron Co., wheels, and carriage manufacturing firms of Biddle & Smart Co., Samuel Rowell & Sons, and Folger & Drummond. April. Hamilton Woollen Co. shut down for repairs in consequence of fire in picker room. May. Lewis, Gross, & Co., shoes, decided to remove plant to Milton, N. H. — Adams & Pettingill, shoes, suspended operations. — Seth H. Gage granted patent on carriage; assigned to Neal & Bolser. — Hamilton Woollen Co. resumed operations after three weeks' shutdown; in July, began to run alternate weeks. August. Plant of Adams & Pettingill, shoes, purchased by P. N. Wadleigh of Haverhill. — C. D. Pecker, shoes, shut down for repairs. — Repair shop of Boston & Maine R. R.

ran on reduced time. September. Briggs Carriage Co. increased force.—Hamilton Woollen Co. resumed permanently after shutting down alternate weeks. November. Briggs Carriage Co. began enlargement of plant.—William G. Ellis, carriage and car manufacturer, died, aged 64 years. December. Carriage shipments during 1896 aggregated 10,390; in 1895, 11,595; decrease, 1,005, or 8-82 per cent.

Amherst. In February, A. R. Cushman, leather-board, shut down part of plant and reduced running time. — The Hills Co., straw goods, enlarged bleaching facilities and added bollers. April. Henry F. Hills of The Hills Co., straw goods, died, aged 62 years. June. A. R. Cushman, leather-board, shut down remaining portion of plant. — The Hills Co., straw goods, began erection of addition, 32 x 56 feet, three stories. August. Plant of Marcy & Gardner, bricks, damaged by fire; repaired in September. December. A. R. Cushman, leather-board, resumed operations.

Andover. In February, Ballardvale Manufacturing Co., bronze goods, started up on reduced time.

July. Smith & Dove Manufacturing Co., linen thread, shut down alternate weeks. — Partial shutdown occurred at factory of Tyer Rubber Co.

Smith & Dove Manufacturing Co., linen thread, erected new dry house and new machine shop for repairs. — Tyer Rubber Co. ran on reduced time.

September. Marland Mills, woollens, started up in part. — Ballardvale Mills, woollens, changed owners.

October. Smith & Dove Manufacturing Co., linen thread, resumed full time.

December. Stock subscribed for establishment of new industry: the manufacture of patented rubber shoes.

Ashburnham. In January, W. F. Whitney, furniture, resumed operations after shutdown. August. O. Whitney & Co., chairs, shut down indefinitely. September. Factory occupied by Brooks Basket Co. destroyed by fire. November. Ashburnham Cotton Mills started up on reduced time after shutdown.

Ashland. In February, Ashland Shoe and Leather Co. started up factory on reduced time. March. Warren Thread Co. contracted for general electric apparatus.——Ashland Shoe and Leather Co. increased to full time: in June, shut down for stock taking.

Athel. In January, Daniel E. Adams, silks, added 60 horse power engine.—New looms placed in Eagle Woollen Mills. February. Miller River Manufacturing Co., woollens, added electric plant. March. Diamond Match Co. increased force. April. Hill & Greene, shoes, resumed operations after stock taking. May. Edwin Ellis & Son, doors, and A. F. Tyler, sashes and blinds, increased running time.—Hill & Greene, shoes, leased factory formerly occupied by Munroe, Elkins, & Smalledge in order to increase capacity.—Company organized to manufacture newly patented billiard table; capital stock \$750,000; furniture factory of J. W. Goodman leased. June. Charles M. Lee, shoe manufacturer, died, aged 69 years. July. Operations resumed at plano-case factory of Goddard & Manning. August. Edwin Ellis & Son, sashes, doors, etc., ran overtime.—L. S. Starrett, tools, shut down for stock taking and repairs. November. Patent granted to Willard Hager on display rack. December. Factory of Edwin Ellis & Son, sashes, doors, etc., destroyed by fire.

Attleborough. In January, Hebron Manufacturing Co., cottons, damaged by fire. February. Plans made for enlargement of plant of Howard-Bullough American Machine March. Plans made for new cotton Co. — Old Mechanics Mills leased and renovated. mill. — Hebron Manufacturing Co., cottons, ordered new looms. May. Attleborough Steam & Electric Co. added machinery for supplying plant with water power. - Watson, Newell, & Co., jewelry, moved into new factory. - Horton, Angell, & Co., buttons, decided to erect new factory, 36 x 250 feet, two stories. June. Plant of W. F. Briggs Co., jewelry, sold to Frank Fonteneau & Co.; same business continued. --- Mark O. Wheaton of Wheaton, Richards, & Co., jewelry, died. July. Mossberg Manufacturing Co., machinery, reorganized as Mossberg & Granville Manufacturing Co. — Ellis, Livsey, & Brown, jewelry, built addition to be used as office and packing room. --- Work begun on new factory for Horton, Angell, & Co., buttons. --- Hebron Manufacturing Co., cottons, shut down temporarily and resumed with new time schedule; in August, made repairs. August. Arrangements made for the manufacture of seamless wire in factory formerly occupied by Watson, Newell, & Co., jewelry. ---- Money subscribed for erection of factory for Mossberg & Granville Manufacturing Co.; in October, quarters secured in Providence, R. I., for removal of firm to that place. November. Patent granted Josiah F. Byder on combination tool. — Mossberg & Granville Manufacturing Co., machinery, removed to Providence, R. I.

Auburn. In January, property of Crossley Manufacturing Co., woollens, sold at auction

Avon. In January, Avon Shoe Co. closed up business. February. L. G. Littlefield, shoes, started up on full time. May. Business revived at shoe factory of J. B. Lewis Co. August. William H. Tucker, retired shoe manufacturer, died, aged 74 years. November. L. G. Littlefield, shoes, resumed operations after shutdown.—Bartlett Collins, carriages, built addition to factory.

Barre. In February, John M. Noyes Shoe Co. of Lynn, accepted proposition to establish manufacture of shoes in this place; plans made for erection of factory building, 60 x 200 feet, two stories; work begun in March; completed in June and business removed from Lynn to this place; in July, started up. December. J. Edwin Smith, cottons, resumed on short time after two months' suspension.

Becket. In February, Becket Silk Co. made arrangements for organization of stock company. November. M. E. Ballou & Son, baskets, made improvements in water power.

Belchertown. In February, R. H. Long Shoe Co. of Braintree, leased building preparatory to moving business to this place; in March, removal effected and operations begun.

Bellingham. In January, Ray's Woollen Co. added looms. March. Taft, Murdock, & Co., woollens, shut down temporarily on account of flood. April. Ray's Woollen Co. shut down for repairs. May. Taft, Murdock, & Co., woollens, reduced running time to four days per week on account of over-production. June. No. 3 mill of Ray's Woollen Co. resumed operations.—Taft, Murdock, & Co., woollens, shut down indefinitely; 150 operatives affected. July. Ray's Woollen Co. shut down; in August, resumed with reduced force. August. Taft, Murdock, & Co., woollens, shut down for repairs; in September, resumed with reduced force. October. Ray's Woollen Co. shut down indefinitely; 200 operatives affected.

BEVERLY. In January, Burwell Shoe Co. changed name to Beverly Shoe Co .-George V. Brown, shoe patterns and tips, sold out. --- Nugent Bros., specialty in shoes, moved from Salem to this place. February. J. A. Wallis & Co., shoes, increased output. - Bray, Stanley, & Webber, shoes, removed to new quarters. March. Jenkins-Falligren Co. established to manufacture shoes. — E. B. Rogers & Co., shoes, succeeded Beverly Shoe Co. --- Employés of Babb, Williams, & Douglas Co., shoes, struck because of reduction in wages; work resumed in April. April. Elmer Andrews, shoes, sold out. - French, Williams, & Rowe established to manufacture shoes. - R. E. Larcom, shoes, enlarged quarters. May. J. H. Sanborn and J. H. Hinckley & Co. established to manufacture shoes. - Eva J. Lunt granted patent on shoe string fastener. - P. A. Field & Co., shoes, increased force. -- Beverly Machine Co. and William E. Bailey & Co., machinery, consolidated. — Building leased for the manufacture of woven hose and bicycle tires.—Rhode Island Copper Paint Manufacturing Co. decided to locate in this place. June. Albert Warren Co., shoes, removed from Salem to this place. September. E. B. Rogers Co., shoes, succeeded by Bay State Shoe Co. November. P. A. Field & Co., shoes, removed to Salem. - Factory of Seth Norwood Shoe Co. destroyed by fire.

Billeries. In July, Talbot Woollen Mills shut down for annual vacation; in August, resumed; damaged by fire. September. Talbot Dyewood and Chemical Co. suspended operations. October. Talbot Woollen Mills ran on reduced time on account of lack of orders; in November, resumed full time.

Blackstone. In January, Miliville factory of Woonsocket Rubber Co. shut down indefinitely; 1,200 operatives affected. March. Temporary shutdown on account of high water occurred at plant of Lawrence Felting Co. May. Woonsocket Rubber Co. resumed operations at Miliville factory. June. Blackstone Manufacturing Co., cottons, reduced running time to four days per week; in July, began shutting down every third week. July. Miliville factory of Woonsocket Rubber Co. shut down for four weeks. — Caleb Seagraves, retired woollen manufacturer, died. August. Blackstone Manufacturing Co., cottons, shut down for one week. September. Miliville factory of

Woonsocket Rubber Co. resumed operations. October. Lawrence Feiting Co. increased force. November. Satinet mill formerly operated by A. M. Armstrong started up by Frederic Thayer of Woonsocket, R. I., after long idleness. December. Patent granted to Samuel J. Harris on car fender.

BOSTON. In January, Star Watch Co. organized under laws of New Jersey; capital stock \$100,000. - A. D. Nagle & Co., leather, dissolved. - Stiles & Winslow, leather, succeeded by Stiles & Winslow Leather Co.; incorporated; capital stock \$75,000 .-Charles K. Crane & Co., shoes, and A. S. Young & Co., cotton clothing, dissolved .-Vogt & Shaw, relief work, succeeded by Paul Vogt. - Fowle, Cobb, & Pearson, shirts and overalls, succeeded by Fowle & Pearson, --- James Mellen of Curtis, Davis, & Co., soap, and Charles F. Bellows of Bellows & Manson, wrought iron and steel, died .-Establishment of Henry T. Edwards, electric and gas fixtures, damaged by fire. ary. American Drosophore Co., humidifying machines, increased capacity. - Edward C. Judd granted patent on sole leveling machine. - Jas. E. Baker of J. W. Kennan Co., leather, died, aged 54 years. - Business of following firms damaged by fire: Walter E. Horton, trunks: A. & J. E. Tuttle, patterns: Mills, Knight, & Co., printers and manufacturers of memorandum books; A. Cohen & Co. and Fowle & Pearson, clothing; and Albert Trostel & Sons, leather. March. Continental Lasting Machine Co. incorporated under laws of Maine: capital stock \$300,000. - Twentieth Century Co. established to manufacture heels; incorporated under laws of Maine; capital stock \$250,000. --- Lasted Toe Cap Co. established to manufacture toe caps; incorporated under laws of Maine; capital stock \$600,000. --- William and Charles E. Gordon granted patent on adjustable last. - Sewell & Day Cordage Co. increased capacity. - John Reece, inventor and manufacturer of Reece button hole machine, died, aged 42 years. - Building and stock of Pope Manufacturing Co., bicycles, destroyed by fire. - Plant of P. Derby & Co., furniture, damaged by fire. April. Sprague Shoe Co. established manufacture of shoes. - Zachary T. French granted patent on new style sewing machine to be used in shoe manufacture. --- Consolidated Hand Method Lasting Machine Co. increased floor space and capacity. --- Reece Button-Hole Machine Co. moved into new factory. --- W. S. Hill Electric Co. removed to New Bedford. - Walter B. Ellis withdrew from copartnership in Electric Stain Co.; business continued by remaining partner under same style. - James J. Walworth, president of Walworth Manufacturing Co., heating apparatus, died, aged 87 years. - Miles Standish Cahill, manufacturer of shoe findings, blackings, etc., died, aged 72 years. - Establishments of Miller & Whalen, printers, Samuel Hipkiss, leather goods, and Sewell & Day Cordage Co. damaged by fire.-Strike occurred among painters. May. Company organized to manufacture bicycles under name of Alpha Cycle Co.; capital stock \$80,000. — Edwin D. Mellen and Stillman F. Kelly formed partnership to continue the manufacture of soap under name of Curtis, Davis, & Co. — Patents granted as follows: Peter A. Coupal, on machine for indenting surfaces; assigned to Goodyear Shoe Machinery Co.; Ambrose S. Vose, on heel trimming and randing machine, rand guard, and knife; Lewis E. Ericson, on sole-rounding machine; Augustus Seaver, on upper and box toe for shoes; and John S. Stone, on telephone circuit and apparatus; assigned to American Bell Telephone Co. - J. R. Pearl & Co., shoes, dissolved; business continued by Beacon Shoe Manufacturing Co. - Thayer, Foss, & Co., leather, dissolved; H. S. Thayer and John P. Richardson continued under same style. — Business of following firms damaged by fire: Boston Leather Dressing Co.; Maine Belting Co., cotton belting; William Hall & Co., brass founders; Egyptian Chemical Co., embalming fluids; George B. Dodge & Co., printers; and Crowell Manufacturing Co., gummed labels. - Strikes occurred among stage employes and hoisting June, Ashland Leather Board Co. incorporated; capital stock and portable engineers. \$15,000. — Mann, Wright, & Co., cut soles, dissolved; business continued by O. A. Mann & Co. — Proctor, Hunt, & Co., leather, dissolved; business continued by new firm of Proctor, Ellison, & Co. --- George Dennie, formerly of Dennie & Boardman, leather, died, aged 92 years. — Thomas J. Holmes, manufacturer of atomizing tubes, died, aged 51 years. - Factory of Oscar Gowing, shirts, damaged by fire. July. Thompson, Krahl, & Co., leather, dissolved. — New firm, Thompson, Packard, & Co., leather, organized. -Goodyear Shoe Machinery Co. purchased land for erection of new factory building. August. John W. Regan granted patent on metal device to be used in putting out fires. It is to be used instead of the nozzle on hose and distributes water in a more effective manner. --- New York, New Haven, & Hartford R. R. began running trains on elevated tracks. --- Goodyear Shoe Machinery Co. made plans for erection of two buildings of brick; one, 68 x 348 feet, four stories; the other, 32 x 70 feet. — Repair shops of Boston & Maine R. R. began shutting down on Saturday. --- George P. Grant, president of Grant

Yarn Co., Fitchburg, died, aged 52 years. --- Benjamin Shreve of Shreve, Crump, & Low, iewelry, died in Salem, aged 83 years. - Factory of Robert Bishop, cotton waste, dam-September. Contract awarded for erection of new factory building for American Tool & Machine Co.; of brick, 52 x 156 feet, five stories, --- Sail makers struck to enforce shorter working day. October. George Ferguson granted patent on lasting machine and David F. Hartford on machine for cutting soles. - Hallet & Davis Piano Manufacturing Co. resumed full time. - Work begun on new building of American Tool & Machine Co. - Strikes occurred among tailors and steamfitters. November. Patents granted as follows: To Albert F. Chace, on vehicle wheel: to James B. Forsythe. on safety stop device for grinders; to Albert L. Gladwin, on burner for liquid fuel; to John H. Graham, on car truck; to George C. Hicks, on heat insulator; to Percy C. Howe. on thermostat-actuated fire alarm; to William A. Byrne, on plano; to Mary A. Farrington, on garment supporter; to Thomas Fillebrown, on easel; to William H. Nicholas, on black leading machine; to Achilles de Khotinsky, on lightning arrester; to William J. Ross, on sprocket wheel; to Walter Shaw, on lasting machine; to William H. Golding. on printers' composing stick, rule, and lead cutter; to John S. Hassen, on mail marking machine; to George F. Milliken, on fire alarm signal box; to Arthur Newton, on nail package; to James T. Norton, on electric switch; to Andrew G. Paul and H. A. Joslin, on paper drier; and to John Reece (deceased), on sewing machine for finishing buttonhole pieces, --- New shoe manufacturing firm, Rubber Soled Leather Shoe Co. incorporated: capital stock \$1,000,000. - Following firms damaged by fire: Turner & Kimball Cabinet Co.; A. Cohen, clothing; George Coleman, bookbinder; and White Smith Music Publishing Co. December. Patents granted as follows: To Horace Weeks, on sole nail; to Everett D. Chadwick, on detachable fastening; to Stillman M. Fay, on brake mechanism for elevators; to William S. Richardson, on fastener for gloves; to Edwin N. Stephenson, on machine for stuffing mattresses, and to Andrew J. Robinson, on stopper attachment for bottles, power brake, car motor, and car truck. --- Boston Carpet Slipper Co. moved into new quarters. - Henry L. Pierce, chocolate manufacturer, died, aged 78 years. - Factory of William R. Dimond & Co., stencils, and Bay State Electrotype Foundry, damaged by fire. - Strike occurred among employés of West End Street Railway Co.

[Brighton.] In July, West End Street Rallway Co. made plans for erection of new car house, 149 x 153 feet. October. Factory of Sewell & Day Cordage Co. damaged by fire.

[Charlestown.] In July, carriage factory of E. A. Gillett & Sons, damaged by fire.
[Dorchester.] In March, carriage factory of J. E. Fisher & Co. damaged by fire.

May. West End Street Railway Co. erected new power house; in September, purchased

[East Boston.] In May, plant of Maverick Oil Co. destroyed by fire.

land for erection of two car houses.

[Jamaica Plain.] In January, Franklin Brewing Co. opened new brewery; main building, 113 x 215 feet, seven stories. June. Boylston Brewery damaged by fire. November. Strike occurred at plant of Franklin Brewing Co.

[Mattapan.] In January, A. J. Wilkinson & Co., machinery, ran overtime; in July, began erection of addition.

[Neponset.] In June, Zebulon E. Coffin, inventor of valves and president of Coffin Valve Co., died, aged 80 years.

[Roslindale.] In June, John Pearce, formerly of J. R. Leeson & Co., shoe findings, died, aged 80 years.

[Roxbury.] In January, E. Howard Watch & Clock Co. suspended operations temporarily, owing to dull trade. *March*. Dennison Manufacturing Co., paper goods, purchased plant in Framingham for removal of business to that place. *May*. Sylvester H. Boper, inventor of steam bicycle, died, aged 72 years. *July*. Thomas G. Plant Co. of Lynn, began erection of new shoe factory; of brick, 52 x 888 feet, six stories. *August*. John Bray invented brake for electric car which causes full stop almost immediately.—Factory of Brooks Bank Note Co. damaged by fire. *September*. Roxbury Carpet Co. shut down one week for repairs. *November*. Shoe factory of Thomas G. Plant Co. completed and business started up.—Roxbury Carpet Co. shut down indefinitely; in December, resumed.

[South Boston.] In January, company organized to build ships; capital stock \$2.500,000; under laws of New Jersey. — U. S. Sugar Refining Co. of New Jersey, decided to erect refinery in this place. *March*. Plant of Suffolk Brewery Co. damaged by fire. *April*. Work begun on new factory buildings of F. E. Atteaux & Co., dyestuffs; of wood, 80 x 100 and 50 x 150 feet, one story; with engine and boiler house of brick, 25 x 35 feet, 2½ stories. *May*. Bay State and Brookline Gas Companies combined; 500 employés discharged on

account of union. August. Boston Wharf Co. made plans for erection of warehouse; of brick, 100×160 feet.

[West Roxbury.] In November, Waldberg Brewery damaged by fire.

Boylsten. In September, Warren H. Baker, woollen manufacturer, died, aged 56 years.

Bradford. In January, improvements made at plant of Haverhill Paper Co. March. A. G. Harding assumed control of Bradford Iron Works. — Wood-working plant of L. C. Ring destroyed by fire. June. Gilman Bros., hats, rected brick addition to be used for boiler-room; in July, added new boilers. July. Arrangements made for permanent closing of Bradford Iron Foundry. September. Haverhill Paper Co. shut down indefinitely; work begun on new storehouse. October. Gilman Bros., hats, reduced wages. November. Haverhill Paper Co. resumed operations. — Strike occurred at factory of Gilman Bros., hats; settled. December. Haverhill Paper Co. decided to remove to Berlin, N. H.

Braintree. In February, R. H. Long Shoe Co. announced intention of removing business to Belchertown; in March, removal effected. April. Plant of Braintree Wood and Lumber Co. destroyed by fire. August. Employés in granite quarry struck. September. Braintree Shoe Manufacturing Co. discontinued business. November. Patent granted to Elijah C. Hall on heater and to William B. Merritt on device for closing tube punctures.—Automatic Electric Pump Co. of Boston, purchased land and began erection of factory, 30 x 130 feet, two stories.

Bridgewater. In January, Bridgewater Iron Co. damaged by flood. April. Strike occurred among lasters at shoe factory of W. H. McElwain & Co.; settled. May. Albion K. Washburn granted patent on sole leveling machine. — Treers at factory of W. H. McElwain & Co., shoes, struck for increase, settled; in October, lasters struck. October. Manufacture of eyelets established.

BROCKTON. In January, R. B. Grover & Co., shoes, ran on reduced time. -Lowell M. Reynolds, shoes, advertised factory for sale. - A. M. Niles Shoe Co. started up. - Brockton Box Toe Co. secured additional room, 40 x 100 feet, increased force and ran overtime. - G. S. Huff established manufacture of men's shoes, and Wakeling & Clifford, successors to C. F. Wakeling & Co., established manufacture of specialty in women's footwear. - John F. Murphy & Co. established manufacture of shoe findings. Means & Co., shoes, dissolved; factory leased to M. P. Clough & Co. — Hurley Bros. & Co., shoes, dissolved; succeeded by Hurley Shoe Co.; incorporated; capital stock \$6,000. - Factory of Brockton Last Co. damaged by fire. February. C. S. Willett invented gate for electric cars. - Ephraim S. Morton granted patent on last block fastener. - A. S. Meyers, formerly of Scott & Meyers, machinery, started up new machine shop, --- R. B. Grover & Co., shoes, resumed work after shutdown for stock taking. --Brockton Power Co. organized; to erect plant to furnish power to manufacturing establishments. --- Contract awarded by Bouvé, Crawford, & Co. for new factory; to be 35 x 300 feet, three stories. --- F. M. Shaw & Son, leather, purchased manufacturing business of J. A. Roarty. -- Plans made for erection of factory, 30 x 60 feet, two stories, for manufacture of inks, stains, etc., by William Goodrich. - Woodward & Wright, lasts, made addition to factory. - Strike on account of price list occurred among lasters of J. M. O'Donnell & Co.; settled. March. C. H. Pope invented jack for re-lasting. - F. M. Shaw & Son, leather, transferred business of J. A. Roarty to their factory. --- C. B. Gould & Co., shoes, removed business to new quarters. —— Strike because of wage differences occurred at Standard Rubber Works. - Strike of edge trimmers and setters at factory of A. M. Herrod & Co., shoes, caused shutdown; work resumed later. April. Foundation of new factory of Bouvé, Crawford, & Co. completed. - M. P. Clough & Co., shoes, moved into new quarters. - R. B. Grover & Co., shoes, decided to make addition to factory. -Work begun on new factory of T. A. Norris Machine Co., shoe machinery. --- Frank E. White Co., shoes, ran with two-thirds capacity. --- I. & R. Hughes, boiler makers, changed firm name to Hughes & Richards. --- Charles S. Pierce, tip manufacturer, added box toes to business. --- Bittenbender & Caverly, shoes, dissolved. --- W. L. Doty & Co., shoes, dissolved; business continued by W. L. Doty. - Strikes among lasters occurred at shoe factories of E. & L. C. Keith and L. M. Reynolds & Co. May. American Heeling Ma-

chine Co. nurchased land in Winchester for erection of new factory building, preparatory to removal of business. - John B. Hadaway granted patent on stitch separating and indenting machine. - W. L. Dunbar & Co., patterns, ran overtime. - Temporary shutdown for repairs at shoe factory of R. B. Grover & Co. on account of accident to boller. — Preston B. Keith, shoes, shut down for stock taking. — Goddard & Rogers, shoe machinery, dissolved; business continued by Mr. Rogers. — M. P. Clough & Co., shoes, granted employée half-holiday on Saturday .- Strike occurred among edge setters and trimmers at abou factory of Bouvé, Crawford, & Co. June. Stock company formed to manufacture blevele tires. --- New factory of T. A. Norris Machine Co., shoe machinery, completed, and occupied by firm. --- Company formed to manufacture preparation for preventing patent leather from cracking in process of manufacture, the invention of James H. Cunningham. - Emery & Packard, leather, and H. T. Perry & Co., shoe findings, secured larger quarters. — Accident to boiler caused temporary shutdown at shoe factory of R. B. Grover & Co. — Baxendale & Co., box toes and counters, added cutting -Strike occurred at shoe factory of L. M. Reynolds; settled. machines. ---July. New factory of Bouvé, Crawford, & Co., shoes, completed and firm moved in. -- Changes and improvements made at shoe tree factory of O. A. Miller. - George A. Carter, tacks, moved into larger quarters. --- Walker, Taylor, & Co., shoes, resumed operations. George G. Snow, shoes, started up. - Chas. A. Eaton & Co., shoes, started up with increased capacity after shutdown for repairs. - Frank E. White Co., shoes, shut down for repairs. - Snell & Atherton, shoe tools, Lilly-Brackett Co., Thompson Bros., Packard & Field, and J. M. O'Donnell & Co., shoes, shut down temporarily. — S. Newell Buck. shoe manufacturer, died, aged 69 years. August. School established for teaching lasters to operate lasting machines. — Repairs made at factory formerly occupied by Bitten. bender & Caverly. --- R. B. Grover & Co., shoes, shut down during two weeks for stock taking and resumed. - Preston B. Keith, shoes, shut down for a few days. - A. M. Herrod & Co., shoes, shut down for stock taking and resumed. - Brockton Street Railway Co. enlarged plant. - Edge makers at shoe factory of McCarty, Sheehy, & Kendrick struck. --- Plumbers employed by T. J. Kinney struck. September. Mawhinney Last Co. of Worcester, purchased factory for establishment of business in this place. --- Dexter E. Wilbar & Son, shoes, began manufacture of shoes having inflated sole. --- W. L. Douglas Shoe Co. increased force. --- Erection of new factory begun for Trilby Polish Manufacturing Co. - Quarters secured and machinery set up for the manufacture of wire nails. - Grafton Box Co. of Grafton, N. H., established branch factory in this place. — Chas. A. Eaton & Co., shoes, shut down for one week. — Factory of Ware & Lincoln, shoes, damaged by fire. - Strike at shoe factory of McCarty, Sheehy, & Ken-October. John W. Barlow granted patent on last. - W. L. Douglas drick settled. Shoe Co. made changes in lasting machines. - L. C. Bliss & Co., shoes, decided to remove to Whitman. --- Preston B. Keith, shoes, shut down for stock taking and increased November. Preston B. force. - Box factory of Theodore Cushing damaged by fire. Keith, shoes, succeeded by Preston B. Keith Shoe Co.; incorporated; capital stock \$100,000. - Improvements made at factory of Mawhinney Last Co. and erection of addition begun, 20 x 60 feet, one story. - Patent granted to Daniel W. Stevenson on sewing machine. - D. W. Field, shoes, increased force. - L. M. Reynolds & Co., shoes, and Charles A. Eaton & Co., shoes, shut down for inventory and resumed. — F. M. Shaw & Son, leather, ran with reduced force. —— Isaac A. Dunham, inventor of several tools used in shoe manufacturing, died. - Factory of A. M. Herrod & Co., shoes, damaged by December. Patent granted to John B. Hadaway on welt bevelling attachment for sole sewing machines and to George O. Goddard on strip feeding attachment for printing presses. - W. S. Bamford, Arthur W. and Alfred A. Smith formed partnership and secured quarters for manufacture of elastic goring. — George R. Earle established manufacture of shoe patterns. --- Mulligan & Drislane and George H. Jennings established manufacture of box toes. - William Talbot established manufacture of shoes. -George E. Keith, shoes, changed style to George E. Keith Co.; incorporated; capital stock \$250,000, --- Ware & Lincoln, shoes, succeeded by Ware, Lincoln, & Thayer. ---Edward O'Donnell retired from firm of J. M. O'Donnell & Co.; business continued under style of J. M. O'Donnell & Co. and removed to Middleborough. — Mawhinney Last Co. removed from Worcester to this place. - Brockton Box Toe Co. moved into new and larger quarters. — Chas. A. Eaton & Co., shoes, increased power and space. — Small, Nesmith, & Co., shoes, increased space. — A. M. Herrod & Co., shoes, shut down a few days. --- Edward Tisdale of C. E. Tisdale & Co., shoes, West Bridgewater, died, aged 74 years. --- Number of cases of shoes shipped during 1895 and 1896, as compiled by the Brockton Enterprise, were as follows: -

Mont	hs	•	1895	1896	Months.			1895	1896	
January, .			35,238	38,465	August, .			43,056	83,100	
February, .			87,006	86,110	September,		.	85,073	40,029	
March, .			48,416	40,556	October, .			80,915	43,787	
April,			42,784	42,150	November,			35,805	28,850	
Мау,			49,709	51, 24 2	December,			20,527	22,950	
June,			87,870	31,681	Totals,			444,763	434,375	
July,			28,914	30,455			j			

It will be seen by the above table that the shipments for 1896 were 434,375 cases as against 444,763 cases in 1895, a decrease of 10,388 cases or 2.34 per cent. Shipments during past ten years were as follows:—

	YE	LRS.			Cases	Cases				
1887, .			•		383,404	1892,				428,241
1888, .					422,282	1893,				422,058
1889, .					433,452	1894,				424,036
1890, .					469,607	1895,				444,763
1891, .				.	429,582	1896,				 434,375

Brookfield. In January, Sagendorph Mills, woollens, purchased by L. N. Taylor and leased to C. C. Maguire, formerly of Maguire & Gilmore; started up in February. February. H. H. Brown & Co. and C. H. Moulton & Co., shoes, started up on full time. March. Geo. Mann & Bro., woollens, ran on short time. - E. & A. H. Batcheller Co., shoes, began running on ten-hour time. --- Parmenter Manufacturing Co., pottery, shut down indefinitely. --- W. S. Hill Electric Co. organized to manufacture electric apparatus; purchased brick and wooden buildings. - Brookfield Pressed Brick Co. started up. -- Bradford Yarn Mills, woollens, leased by new company and machinery put in position. - Lasters employed by George H. Burt Co., shoes, struck because of cut in April. Alvin Hyde, boxes, started up business in new factory. — Picker building at plant of Geo. Mann & Bro., woollens, damaged by fire. May. Greyhound Bicycle Co. ran overtime. - Parmenter Manufacturing Co., pottery, began work of consolidating three brick mills in one. - E. & A. H. Batcheller Co., shoes, shut down for stock taking. --- Picker house at plant of Geo. Mann & Bro., woollens, rebuilt and business started up on reduced scale. --- Strike occurred among Italian laborers on electric June. E. & A. H. Batcheller Co., shoes, re-adjusted work and prices. — Geo. Mann & Bro., woollens, shut down indefinitely on account of dull trade. July. Brookfield Pressed Brick Co., shut down indefinitely. - Tyler-Moulton Shoe Co. and George H. Burt & Co., shoes, shut down indefinitely; later, George H. Burt & Co. resumed op-August. Tyler-Moulton Shoe Co. reorganized; in November, removed to West Brookfield. November. Geo. Mann & Bro., woollens, resumed operations. - E. & A. H. Batcheller Co. added new machines. — Parmenter Manufacturing Co., bricks, made improvements in plant. December. Geo. Mann & Bro. leased Sagendorph Woollen Mill.

Breekline. In April, Alexander B. Wilbor, manufacturing chemist, died, aged 69 years. August. Charles M. Smith, inventor, died, aged 51 years. October. Henry Bond, tanner, died, aged 79 years. November. William E. Shaw invented clock by which the deaf can be awakened at any desired time.—— Patent granted Louis J. Hirt on mechanism for cable railways and Frederick S. Belyes on dental plugger.

CAMBRIDGE. In January, plant secured for establishment of paper box factory. Standard Brass Co. purchased plant of Framingham Brass Manufacturing Co. and removed stock and machinery to this place. February. American Rubber Works shut down for two weeks. --- New factory building owned by Cambridge Improvement Co. destroyed by fire. - Factory of W. C. H. Badger & Co., furniture, damaged by fire. March. Rawson & Morrison, machinery, awarded contract for new building, 60 x 150 feet, two stories. --- Plant of American Net & Twine Co. damaged by fire. May. William P. Greenlaw granted patent on clothes pounder. - Factory of Charles Place, paper boxes, destroyed by fire; to be rebuilt. June. Strike occurred among employés of Ginn & Co., publishers; settled in July. August. Factory of American Rubber Co. resumed operations. September. Contract awarded for new factory of Charles Place. November. Union Bottling Co. started up after three months' shutdown .-Edward L. Dwyer granted patent on street car sign. - Plant of Boston Bridge Works destroyed by fire. - Furniture factory of A. B. & E. L. Shaw and lumber plant of December. Patent granted to Myron F. Hill on tele-Parker & Page damaged by fire. phone exchange. - Furniture factory of Rouke & Kennedy destroyed by fire.

Camton. In February, Charles Draper, retired woollen manufacturer, died, aged 63 years. April. Robert Draper's Sons, cottons and knit goods, shut down indefinitely. June. Draper Bros. Co., hosiery and knit goods, resumed full time. — James L. Draper of Draper Bros. Co., died, aged 47 years. November. Patent granted to Cornelius Callahan on hose nozzle. —— Eureka Silk Co. resumed operations in No. 3 mill.

Charlton. In April, J. O. Copp, woollens, reduced to three-fourths time.—H. I. Gould & Co., wooden boxes, destroyed by fire.

May. Akers & Taylor, woollens, added card feeds; in July, shut down for repairs.

Chelmsford. In January, George C. Moore, wool scourer, added machinery. April. New saw mill of A. L. Brooks & Co. completed. September. George C. Moore, wool scourer, shut down portion of plant and reduced running time. November. Chelmsford Foundry Co. resumed operations on full time. —— George C. Moore, wool scourer, ran nights.

CHELSEA. In January, Revere Rubber Co. petitioned to increase capital stock from \$1,000,000 to \$3,000,000. February. Mahogany mill of George D. Emery damaged by fire; in March, a similar fire occurred. —— Employés of Revere Shoe Co. struck for restoration of wages. April. Boston Rubber Co. became part of United States Rubber Co. and shutdown of plant occurred. May. Storehouse of Boston Rubber Co. damaged by fire. October. Erection of new factory of wood, 48 x 148 feet, two stories, begun for Martin Bros. Manufacturing Co. of Niagara Falls, N. Y., elastic webbing. November. Patent granted to Addison S. Hodges on flask for making seamless ash weights.

Cheshire. In July, stock subscribed for the establishment of new shoe factory.

Chester. In July, plant formerly operated as tannery made over into emery mill.

Chesterfield. In November, T. E. Smith, wooden goods, made repairs and improvements.

CHICOPEE. In January, Chicopee Falls Wheel Co. organized to manufacture "Chicopee" bicycle. —— Stevens Arms & Tool Co. re-organized. —— Taylor, Bramley, & Co., knit goods, decided to enlarge plant. —— Holyoke Card & Paper Co. completed new building. —— Coghlin's Steam Boller & Iron Works of Holyoke, purchased land in this place for erection of mill and foundry. February. Lamb Manufacturing Co., knitting machines, added new engine and decided to move part of plant to New Jersey. March. Belcher & Taylor Agricultural Tool Co. completed storehouse, 80 x 120 feet. —— Jerome W. Doten, knit goods, decided to discontinue business. —— Taylor, Bramley, & Co., knit goods, completed addition, 26 x 38 feet, three stories, set up machinery, and began running. —— Napping room of Chicopee Manufacturing Co., cottons, damaged by fire. April. Lamb Manufacturing Co., knitting machinery, removed skate manufacturing department to Newark, N. J. —— Dwight Manufacturing Co., cottons, shut down mule room temporarily on account of high water. May. Overman Wheel Co., bicycles, began running on summer schedule. —— Factory of Belcher & Taylor Agricultural Tool Co. damaged by fire.

June. Lamb Manufacturing Co., knitting machines, reduced running time to eight hours. - Factory of Dana S. Courtney, bobbins, destroyed by fire. July. James Emerson, inventor of apparatus for measuring water power, dynamometer, and system of heating cars by steam from the engine, died, aged 78 years. August. Overman Wheel Co. made repairs and shut down. - Stevens Arms & Tool Co. shut down for two weeks. - Dwight Manufacturing Co., cottons, shut down its several mills alternate weeks in order to curtail production. - Chicopee Manufacturing Co., cottons, resumed operations after four weeks' shutdown. September. Overman Wheel Co., bicycles, increased force. --- Contract awarded for re-building bobbin factory of Dana 8. Courtney. ---- Chicopee Manufacturing Co., cottons, erected new penstocks. --- Stevens Arms & Tool Co. ran on reduced time. - Dwight Manufacturing Co., cottons, and Chicopee Manufacturing Co., cottons, reduced wages. October. Lamb Manufacturing Co., machinery, increased running time and Overman Wheel Co. increased force. November. Overman Wheel Co., bicycles, ran overtime. ---- Jonathan R. Whittemore, manufacturer of agricultural implements, died, aged 74 years.

Clinton. In January, Witherell Shoe Co. shut down indefinitely. --- Clinton Worsted Co. changed from overtime to regular hours. February, Bigelow Carpet Co. reduced force because of dull trade. - Wekepeke Woollen Co, reduced wages of weavers on account of dull market. March. Bigelow Carpet Co. reduced running time on account of scarcity of orders. --- Lancaster Mills, cottons, shut down on account of high water; later received new looms. April. Carding and spinning rooms of Wekepeke Woollen Co. ran 24 hours per day. - Clinton Worsted Co. reduced running time to 40 hours per week. ---- Bigelow Carpet Co. reduced running time to three days per week: in May, returned to full time. May. John D. Missroon granted patent on slate picker; assigned to Clinton Wire Cloth Co. June. Lancaster Mills, cottons, added new machinery. --- Clinton Worsted Co. made improvements in boiler plant. --- Bigelow Carpet Co. shut down temporarily for repairs. July. Smiley Manufacturing Co., clothing, shut down temporarily. - Gilbert M. Mason invented ironing board for special clothing. -Clinton Wire Cloth Co. shut down portion of plant. August. Weaving departments Nos. 2 and 3. Bigelow Carpet Co., shut down indefinitely; department No. 1 ran with reduced force. --- Lancaster Mills, cottons, shut down temporarily for repairs on engine. - September. Gibbs Loom Harness & Reed Co. erected addition, 15 x 20 feet, October. Weaving department of Bigelow Carpet Co. ran on reduced time; in November, worsted department resumed operations. November. Plant of Deershorn Comb Co. destroyed by fire. December. Plant of Clinton Absorbent Cotton Co. leased by Clinton Batting Co. and manufacture of cotton batting begun. --- Clinton Wall Trunk Manufacturing Co. shut down portion of plant and reduced force.— Bigelow Carpet Co. shut down temporarily and resumed with reduced force. --- Strike occurred among weavers at Lancaster Mills, ginghams. - J. B. Parker Machine Co. shut down indefinitely.

Conway. In July, box factory of A. C. Kennett started up after shutdown for a year and one-half. — Work begun on new shoe factory of DeWolf & Bagwell of Marlborough. August. Manufacture of wooden handles established by A. G. Reed. October. Bolier and electric lighting system placed in new shoe factory of DeWolf & Bagwell; in November, factory completed.

Cummington. In January, Scott Jenks purchased plant and established manufacture of wooden goods. August. Turning shop and saw mill of Chilson & Reed destroyed by fire.

Dalton. In January, Dalton Shoe Co. began manufacture of new line of goods. February. Dalton Shoe Co. ran overtime. March. Byron Weston Paper Co. ordered two new water-wheels for Defiance Mill. May. Contract for government paper awarded Crane & Co. June. Old Berkshire Mills Co. shut down engine and machine rooms for repairs. July. Bay State Mill, paper, shut down temporarily. August. Z. & W. M. Crane, paper, built new boiler house and put in new water-wheels. — Old Berkshire Mills Co., paper, resumed after eight weeks' shutdown. — Byron Weston Paper Co. resumed operations after two months' suspension. October. Renfrew Manufacturing Co., cottons, resumed operations after seven weeks' idleness. — Old Berkshire Mills Co., paper, resumed after shutdown for repairs. November.

Dalton Shoe Co. ran nights. December. Dalton Shoe Co. added new dynamo. ——Renfrew Manufacturing Co., cottons, shut down for one week and resumed.

Dama. In March, Henry W. Goodman & Co., straw goods, increased force; in May, shut down. July. North Dana Mills, woollens, shut down for repairs. August. Henry W. Goodman & Co., straw goods, built addition to factory. October. Crawford & Tyler, woollens, resumed operations after suspension of two and one-half months.

Danvers. In February, Donovan & Shea established the manufacture of shoes. — Albert C. Allen, retired shoe manufacturer, died, aged 78 years. April. Bernard & Friedman, leather, erected brick building to be used as tannery for colored leather. — Chandler C. Farwell of C. C. Farwell & Co., shoes, died, aged 69 years. — Grain mill of J. V. & J. Hanson destroyed by fire. — Morocco factory of Albert A. Bates damaged by fire; to be rebuilt. May. Members of hook and ladder company struck for more pay. June. Repairs made at morocco factory of Albert A. Bates. — Henry Sawyer, builder of Sawyer leather measuring machine, died, aged 42 years. July. C. C. Farwell & Co., shoes, shut down for inventory. August. Bernard & Friedman, morocco, began manufacture of patent leather. — A. G. Cherbuy established tannery. September. C. C. Farwell & Co., shoes, reduced wages. December. N. T. Walcott and E. F. Colcord began manufacture of heels. — William H. Burns, shoes, shut down indefinitely.

Dedham. In January, Chelsea Pottery Co. started up business in new factory. April. An addition of brick, 80 x 80 feet, built at Norfolk Mills, carpets; in June, improvements made in water service and new dam built; in July, new machinery added. July. Merchants Woollen Co. increased production by addition of spinning machinery; in October, put in new flume and water-wheel.

Deerfield. In July, Arms Manufacturing Co., wallets, shut down for two weeks and resumed.

Dighton. In May, Mount Hope Thread Mill started up by G. L. Macy of New Bedford; improvements in fire protection service made and 2.700 spindles added.

Douglas. In January, Wm. E. Hayward & Co., woollens, added three sets of cards; in May, added new feeds and made improvements in fire protection service; in June, shutdown of plant occurred. August. American Axe and Tool Co. ran on short time. — Improvements made at woollen mill of Wm. E. Hayward & Co. September. Bevel tool department of American Axe and Tool Co. shut down for two weeks and resumed. — Wm. E. Hayward & Co. resumed operations on reduced time after two months' shutdown. November. American Axe and Tool Co. started up on full time. — Wm. E. Hayward & Co., woollens, started up on full time; fire occurred in picker room.

Dracut. In April, Michael Collins, woollens, shut down on account of dull trade; in July, resumed operations. July. Paper mill of M. L. Bassett & Co. damaged by fire. August. Michael Collins, woollens, resumed operations on reduced time. — Merrimack Woollen Mills shut down for one month; company reorganized as Merrimack Woollen Mills Co.

Dudley. In February, David W. Perry, retired hosiery manufacturer, died, aged 76 years. May. Wm. J. Warren, paper, shut down for repairs; in June, resumed operations. June. Stevens Linen Works shut down for repairs; in July, resumed operations; in August, reduced running time to three days per week; in November, resumed full time.

East Bridgewater. In April, Carver Cotton Gin Co. reduced force slightly, owing to lack of orders. May. Edgar E. Worcester granted patent on lasting machine; assigned to Consolidated Hand Method Lasting Machine Co. September. Carver Cotton Gin Co. reduced force; in November, resumed full time.—George I. Loucraft, brick manufacturer, died.

Easthampton. In February, machinery set up in new mill of Sawyer & Wolfe; in March, started up.

April. George S. Colton, elastic cords, Glendale Elastic Fabric Co., and Nashawannuck Manufacturing Co., suspenders, ran on short time.

July. Glendale

Elastic Fabric Co. resumed full time. — Easthampton Spinning Co. shut down one week for repairs. August. Williston & Knight Co., buttons, shut down for repairs and resumed. — Ionic Knitting Co. shut down. — Nashawannuck Manufacturing Co., suspenders, made repairs on dam. November. George S. Colton, elastic cords, resumed full time. — E. A. Brown & Co., wagons, removed from Palmer to this place; plans made for erection of new factory of brick, 36 x 76 feet, two stories.

Easton. In January, Welch-Brush Co., shoes, shut down indefinitely; in April, succeeded by Welch Shoe Co.; incorporated; capital stock, \$5,000. September. Williams Organ Factory completed and business started up.

Emfield. In June, Enfield Manufacturing Co., woollens, shut down indefinitely on account of dull trade; in October, resumed. October. Swift River Co., woollens, started up.

Essex. In March, saw mill of Gates Bros. destroyed by fire. July. Essex Shoe Coresumed operations after interval of six months.

EVERETT. In February, piano factory of O. J. Faxon & Co. damaged by fire. July.

Pratt, Bailey, & Co., knit goods, ran with reduced force. November. Patent granted to

Avard E. Finley on railway switching apparatus.

FALL RIVER. In January, American Printing Co. increased capacity. -- Twostory building at Durfee Mills completed; to be used as storehouse and machine shop. - Accident to engine at Globe Yarn Mill No. 2 caused shutdown for repairs. — Timothy Sullivan granted patent on device for preserving the edges of cloth while weaving .-Stafford Mills Co. bought additional land for erection of new weave shed. - Plans made for manufacture of absorbent cotton in Quequechan Mill. - Dyers employed by American Printing Co. struck because of reduction in pay; settled. February. Broken belts caused partial shutdown for repairs at Parker Mill. - Narragansett Mills added machinery. - Plans made for erection of brewery plant. - American Printing Co. attempted to create market by reducing selling price of goods. --- American Linen Co. and Granite Mills made additions to card rooms. - Work on foundation of addition to Barnard Manufacturing Co. begun; building to be 148 x 360 feet, two stories. --- W. Evans granted patent on shedding mechanism for looms. — Richard Borden Manufacturing Co. damaged by fire and water. - Weavers at Hargraves Mills struck in protest against fines system; settled. - At mills of Fall River Iron Works Co. weavers refused to work overtime and speeder tenders struck against reduction. March. Parker Manufacturing Co., King Philip, and Durfee Mills added new machinery. - Joseph Lacroix received patent on new kind of rubber boot. - Fall River Iron Works Co. petitioned Legislature for right to increase capital stock to \$4,000,000; granted in April. — Otis E. Dubois received patent on improved rope clamps which grip automatically. mill of J. H. Estes & Son and waste room of Union Mill No. 2 damaged by fire. American Linen Co. added two new boilers. - Shove Mills added drawing machinery and Davol Mills added spinning frames. - Fall River Iron Works Co. resumed operations after week's shutdown for repairs. - Accidents to machinery caused shutdown for repairs at mills of Sagamore and Metacomet Manufacturing Cos. - Kilburn, Lincoln, & Co., machinery, licensed by Northrup Loom Co. to attach the Draper shuttle feeding and warp stop mechanism to the Northrup loom. - Mills of American Printing Co. and portion of weaving department of King Philip Mills shut down indefinitely. ---- Small Bros., frame manufacturers, began erection of addition to works. --- Stock of Fall River Manufactory damaged by fire. --- Strike of back-boys caused stoppage of work in spinning department of Border City Manufacturing Co. — Weavers at Hargraves Mills struck because of dissatisfaction with wages. May. Stafford Mills corporation decided to increase capital stock from \$800,000 to \$1,000,000, and to build new counting room, 34x 54 feet, two stories. - Troy Cotton & Woollen Manufacturing Co. decided to enlarge building, 60 x 89 feet, two stories, occupied by Union Belting and American Supply Cos., by addition of two stories. - Patent granted to C. F. Cowdrey on wheel rim. - Fians, Fraser, & Blackway, machinery, purchased plant of Reid & Creighton. - Following corporations added machinery: Richard Borden Manufacturing Co., American Linen Co., Metacomet Manufacturing Co., Globe Yarn, Weetamoe, Conanicut, Merchants, and Hargraves Mills. — Slade Mills added new engine. — Chace Mills shut down temporarily, and Jesse Eddy Manufacturing Co., woollens, and American Printing Co. shut down

indefinitely. — Accidents to machinery caused temporary shutdowns as follows: Fall River Manufactory, Durfee Mill No. 2, and card room of Iron Works Mill No. 2. - Philip D. Borden of Fall River Iron Works Co., died, aged 80 years. — Strike occurred among spinners at Davol Mills; settled. - Weavers at Hargrayes Mills and Parker Manufacturing Co. struck; settled in June. June. American Printing Co. started up in part. -Eddy Manufacturing Co., woollens, added new looms. - Barnard Manufacturing Co. added new engine. --- New machinery added as follows: Richard Borden Manufacturing Co., Davol, Merchants, Mechanics, and Hargraves Mills. - Shutdowns for repairs occurred as follows: Barnaby Manufacturing Co., Sagamore Manufacturing Co., and Chace Mills .-- Annawan Manufactory shut down indefinitely .-- Ring spinners employed at Robeson Mills and warper tenders at mills of American Linen Co. struck. July. American Linen Co. awarded contract for new chimney 200 feet high. --- W. E. Sharples improved separators used on spinning frames. - New office at Stafford Mills completed. - Globe Yarn Mills, Sagamore Manufacturing Co., and Pocasset Manufacturing Co. added new machinery. - Troy Cotton & Woollen Manufacturing Co. made changes and improvements. --- Kerr Thread Co. shut down temporarily. -of dull trade and in order to curtail production, following cotton manufacturing firms agreed to shut down during four weeks in July and August, running one week and shutting down one week alternately: American Linen Co., Barnaby Manufacturing Co., Barnard Manufacturing Co., Border City Manufacturing Co., Bourne Mills, Consulcut Mills, Cornell Mills, Davol Mills, Durfee Mills, Fall River Iron Works Co., Fall River Manufactory, Flint Mills, Granite Mills, Hargraves Mills, King Philip Mills, Laurel Lake Mills, Mechanics Mills, Merchants Manufacturing Co., Metacomet Manufacturing Co., Narragansett Mills, Osborn Mills, Pocasset Manufacturing Co., Richard Borden Manufacturing Co., Robeson Mills, Sagamore Manufacturing Co., Seaconnet Mills, Shove Mills, Slade Mills, Stafford Mills, Stevens Manufacturing Co., Tecumseh Mills, Troy Cotton & Woollen Manufacturing Co., Union Cotton Manufacturing Co., Wampanoag Mills, and Weetamoe Mills, --- Storehouse of Granite Mill No. 8 and building occupied by Covel Machine Co. and Covel & Osborn, machinery, damaged by fire. August. Algonquin Printing Co. ran overtime. — Repairs made at Conanicut Mills. — Mechanics Mills added new boilers and Merchants Manufacturing Co. added new carding machinery. --- Joseph Bolton, inventor of system of weaving fine numbers on coarse cloth, erected shed, 26 x 28 feet, in which to make experiments. - Following mills continued shutdown during fifth week: Chace Mills, Durfee Mills, Laurel Lake Mills, Sagamore Manufacturing Co., Wampanoag Mills, and Weetamoe Mills. --- Fall River Manufactory continued shutdown during seventh week. ---- Bourne and Robeson Mills shut down indefinitely. --- Kerr Thread Co., Globe Yarn Mills, and Sanford Spinning Co. shut down alternately according to agreement in order to curtail production. Strike occurred among masons. September. Parker Manufacturing Co. ran overtime. -W. C. Powers erected factory for manufacture of roll-covering. — Alternate shutting down was continued by the following corporations: American Linen Co., Border City Manufacturing Co., Bourne Mills, Chace Mills, Conanicut Mills, Cornell Mills, Durfee Mills, Fall River Iron Works Co., Fall River Manufactory, Flint Mills, Granite Mills, King Philip Mills, Laurel Lake Mills, Mechanics Mills, Merchants Manufacturing Co., Metacomet Manufacturing Co., Narragansett Mills, Pocasset Manufacturing Co., Richard Borden Manufacturing Co., Robeson Mills, Sagamore Manufacturing Co., Seaconnet Mills, Slade Mills, Stafford Mills, Stevens Manufacturing Co., Troy Cotton & Woollen Manufacturing Co., Wampanoag Mills, and Weetamoe Mills. -- James C. Eddy of the Jesse Eddy Manufacturing Co., died, aged 67 years. October. Tecumseh Mills added new machinery. --- Barnard Manufacturing Co. placed looms in new weave shed. -Kelly Shoe Co. organized; capital stock \$30,000.—American Linen Co. installed electric lighting plant and completed new chimney. --- Parker Manufacturing Co. discontinued overtime work .- Fall River Machine Co. reduced running time .- Fall River Manufactory and Metacomet Manufacturing Co. shut down indefinitely. --- Suspensions for repairs occurred as follows: American Linen Co., American Printing Co., Chace Mills, Merchants Manufacturing Co., and Metacomet Manufacturing Co. --- Strike occurred among weavers at Stevens Manufacturing Co.; settled. November. Patent granted to Julius M. Weaver on apparatus for leveling silk thread; to Samuel H. Dubois on ring spinning frame; to Joseph Hampson on loom harness. --- Kerr Thread Co. resumed full time. --- New spinning frames placed in No. 4 mill of Fall River Iron Works Co. -American Printing Co. ran on reduced time. - Fall River Manufactory shut down temporarily. - Waste mill of J. H. Estes & Son damaged by fire. - Strike occurred in spooling department of Stafford Mill No. 2. December. Robeson Mills resumed operations. — Tecumseh and Granite Mills added new machinery. — Merchants Manufact-

uring Co. placed new engine in No. 3 mill. --- Plant of Algonouin Printing Co. damaged by fire. --- During past year amount of time lost by shutdowns was as follows: American Linen Co., ten weeks; Annawan Manufactory, eight months; Barnard Manufacturing Co., four weeks; Border City Manufacturing Co., eight weeks; Bourne Mills, two weeks; Chace Mills, seven weeks; Conanicut Mills, Cornell, and Davol Mills, four weeks each; Durfee Mills, six weeks: Fall River Manufactory and Flint Mills, seven weeks: Globe Yarn Mills, four weeks; Granite Mills, five weeks; Hargraves Mills, four weeks; Kerr Thread Co., three days per week for four months; King Philip Mills, four weeks; Laurel Lake and Mechanics Mills, six weeks each: Merchants Manufacturing Co., nine weeks: Metacomet Manufacturing Co., eleven weeks: Narragansett Mills, three and one-half weeks; Osborn Mills, four weeks; Pocasset Manufacturing Co., seven weeks: Richard Borden Manufacturing Co., four weeks; Robeson Mills, six months; Sagamore Manufacturing Co., nine weeks; Sanford Spinning Co., six weeks; Seaconnet Mills, four weeks; Shove Mills, four weeks; Slade Mills, five weeks; Stafford Mills, six weeks; Stevens Manufacturing Co., six weeks; Tecumseh Mills and Troy Cotton & Woollen Manufacturing Co., four weeks each: Union Cotton Manufacturing Co., five weeks: Wampanoag and Weetamoe Mills, eight weeks each. Average shutdown time about seven weeks.

The annual cloth statement, issued by Clinton V. S. Remington, for 1896, showed a production of 10.055,000 pieces, a decrease, as compared with 1895, of 1.035,000 pieces, or 9.33 per cent. Sales for the year were 7.819.000 pieces, of which 5.668.000 pieces were "odd" and 2,151,000 pieces were 64 x 64s. This shows a decrease, as compared with 1895, of 2,052,000 pieces, or 20.79 per cent. There were 1,001,000 pieces sold for future delivery as against 1,125,000 pieces in 1895, a decrease of 124,000 pieces, or 11.02 per cent-The average price paid during the year was .026001, the highest 3 cents and the lowest 2.7-16 cents. The following table shows production and sales since 1891:

						NUMBER	OF PIECES		
CLASSIFIC	MOITA	•		1891	1892	1893	1894	1895	1896
Total production	, .			9,985,000	10,045,000	9,065,000	8,478,000	11,090,000	10,055,000
Sales:					i			ł	
Odd,				4,423,000	5,547,000	4,245,000	5,082,000	6,576,000	5,668,000
60 x 56,				125,000	178,000	-	-	-	-
64 x 64,				4,290,000	5,039,000	2,874,000	3,269,000	8,295,000	2,151,000
On hand at close	of y	Bar,		99,000	7,000	142,000	140,000	287,000	1,802,000
Stock in United S of year,	tates	at cl	080	278,000	9,000	840,000	211,000	464,000	2,300,000
Sold for future d	lelive	ery.		1,375,000	2,850,000	950,009	1,300,000	1,125,000	1,001,000

In order to show the production of print cloth by months, the following table is introduced, in which is given the number of pieces produced during each month in each of the years specified:

		Nunni	R OF PIECE	s Producei	DURING	Each Mon	TH SPECIFIE	D IX-
Монтив.		1890	1891	1892	1898	1894	1895	1896
January, .		770,000	1,000,000	920,000	720,000	770,000	880,000	870,000
February,		800,000	800,000	780,000	750,000	800,000	880,000	1,100,000
March, .	•	975,000	790,000	790,000	780,000	1,010,000	1,100,000	960,000

			Numbe	R OF PIECE	s Produce	DURING I	EACH MONT	PH SPECIFIE	D IN —
Months.			1890	1891	1892	1898	1894	1895	1896
Aprii, .	•	•	765,000	770,000	963,000	945,000	800,000	820,000	855,000
Мау,			1,915,000	1,000,000	790,000	760,000	840,000	880,000	1,150,000
June,			795,000	750,000	765,000	780,000	990,000	1,050,000	880,000
July,			755,000	770,000	950,000	905,000	740,000	840,000	580,000
August, .			837,000	970,000	760,000	530,000	625,000	1,100,000	465,000
September,			805,000	780,009	725,000	585,000	68,000	810,000	560,000
October, .			650,000	950,000	950,000	720,000	175,000	880,000	1,115,000
November,			970,000	780,000	780,000	760,000	745,000	1,080,000	865,000
December,			800,000	725,000	990,000	890,000	920,000	840,000	805,000
TOTALS,			9,937,000	9,985,000	10,045,000	9,065,000	8,478,000	11,090,000	10,055,000

FITCHBURG. In January, E. J. Welch & Co., brass founders, made addition to foun-February. Colburn Electric Manufacturing Co., dynamos, ran overtime and began erection of machine shop, of brick, 43 x 156 feet, two stories. - John Becker Manufacturing Co., machinery, Fitchburg Machine Works, and finishing department of Beoli Mills, woollens, ran overtime. - Iver Johnson Arms & Cycle Co. ran nights. -George W. Wheelwright Paper Co. ran on short time. March. Parkhill Manufacturing Co., cottons, reduced running time to five days of eight hours; in May, changed to four days of ten hours. Man. Hardy & Pinder, metal screen plates, doubled capacity of plant. - Executors of estate of George F. Simonds, deceased, granted patent on mechanism for grinding anti-frictiou balls. -- Iver Johnson Arms & Cycle Co. made plans for erection of new building, 100 x 160 feet, five stories. June. Star Worsted Co. added new engine of 150 horse power. — Fitchburg Manufacturing Co., cottons and woollens, advanced wages of weavers. — Beoli Mills, woollens, resumed operations after two weeks' shutdown. July. Fitchburg Manufacturing Co., cottons and woollens, added new machinery. --- George W. Wheelwright Paper Co. attached recently patented device to Fourdrinier machine. — Grant Yarn Co. and Orswell Mills, cottons, ran on reduced time. ---- Fitchburg Duck Mills shut down for repairs. ---- Nockege Mills, cottons, shut down indefinitely. August. New factory established for manufacture of ramie yarn by Henry & Co. — Beoli Mills, woollens, started up after two weeks' shutdown. — Mills A and B of Parkhill Manufacturing Co., cottons, shut down indefinitely. --- Force reduced at car shops of Fitchburg Railroad. - George P. Grant, president of Grant Yarn Co., died in Boston, aged 52 years. September. Nockege Mills, cottons, resumed operations after October. Mill A of Parkhill Manufacturing Co., cottons, started nine weeks' shutdown. up after six weeks' suspension. --- Mill of Fitchburg Paper Co. damaged by fire. vember. Patent granted Albert A. Holt on vehicle running-gear. - Fitchburg Worsted Co. shut down temporarily for repairs, December. Star Worsted Co. ordered new machinery.

Framingham. In January, plant of Framingham Brass Co. purchased by Standard Brass Co. of Cambridge, and stock and machinery removed to that place. - Plant formerly used as rubber factory secured by Singer Bicycle Co. of Coventry, England, for establishment of branch factory. February. Gregory, Shaw, & Co., shoes, ran on reduced time. March. Dennison Manufacturing Co., paper goods, purchased plant in this town. — Saxonville Woollen Mills ran on reduced time. April. Parmenter & McBride of Sudbury, confectionery, secured factory for removal of business to this place.— Rival Brass Co. shut down indefinitely. ---- Patent granted to Harry Puddefoot on grip mechanism to be used in shoe manufacture. July. H. H. Wilcox of Boston, established manufacture of calendar pads in this place. August. Plans made for two new buildings at plant of Para Rubber Co. to be occupied by Dennison Manufacturing Co.; one to be 50 x 180 feet; the other, 51 x 128 feet. - Factory of Bay State Manufacturing Co., leather goods, shut down. October. Saxonville Mills, woollens, resumed operations after three weeks' shutdown for repairs. — Rival Brass Co. shut down indefinitely. November. Strike occurred at factory of Gregory, Shaw, & Co., shoes. December. Patent granted to Edward G. Gallagher on boot or shoe.

Franklin. In January, Boston Rubber Co. shut down indefinitely. -- Ray's Woollen Co. shut down for repairs and installation of new looms. March. H. T. Hayward. April. Franklin Cotton woollens, shut down part of weaving department for repairs. Manufacturing Co. voted to enlarge plant and change product from cottons to woollens. - Ray's Woollen Co. decided to erect new dychouse. — Edwin F. Trowbridge of Trowbridge Plano Co., died, aged 60 years, --- Picker room of Waite Felting Co. damaged by May. Ray's Woolien Co. shut down indefinitely; new machinery added. — June. Waite Felting Co. began erection of new mill. --- H. T. Hayward, woollens, shut down indefinitely: in August, resumed operations. August. Ray Fabric Mills, woollens, re-September. Ray's Woollen Co. completed erection of new dyesumed operations. house. - Singleton Worsted Co. ran overtime. November. Patent granted to Charles H. Woodbury on clutch for card feeding machines. - H. T. Hayward, woollens, shut down indefinitely. December. Clark Bros., machinery, built addition. - Ray's Woollen Co. installed blower system.

Gardner. In February, creditors of Central Oil-Gas Stove Co., which assigned in November 1895, formed new corporation with same name and purchased plant of former March. Woodworking business of Joel Sibley moved from Winchendon to this place. April. Wright, Read, & Co., chairs, decided to discontinue manufacturing. September. Gardner, Westminster, & Fitchburg Electric Railway Co. formed; capital stock \$100,000, November. Patent granted to Theodore L. Harlow on brush cleaner.

Georgetown. In January, box factory of Willard C. Hardy shut down for repairs. - George W. Chaplin & Co., shoes, added new sole-tacking machine. February. W. M. Brewster, shoes, changed to Hardy & Brewster. March. Pentucket Shoe Co. organized under laws of New Hampshire; capital stock \$15,000. April. A. B. Noyes & Co., shoes, shut down temporarily. — Hardy & Brewster, shoes, started up. May. Halliday & Preble established manufacture of shoes. --- Pentucket Shoe Co. set up new machinery. June. A. B. Noves & Co., shoes, shut down temporarily; in July, added July. Georgetown Boot & Shoe Co. and Halliday & Preble each closed new machinery. for one week. August. A. B. Noyes & Co., shoes, shut down for a few days and resumed. - Hailiday & Preble, shoes, dissolved. September. Willard C. Hardy, boxes, increased output. October. Georgetown Boot & Shoe Co. erected new chimney 60 feet high. November. A. B. Noyes & Co., shoes, ran on reduced time; in December, shut down for one week and resumed. December. Strike occurred at factory of Georgetown Boot & Shoe Co.; settled.

GLOUCESTEB. In January, Lanesville Granite Co. closed operations owing to depression in business. February. Stock subscribed for establishment of Drop Forge Works by Bagnall-Loud Block Co. of Boston. — Glue and isinglass factories of George J. Tarr & Co. destroyed by fire. May. Drop Forge Works started up manufacture of newly invented sheave for use on ship-board. — Laborers employed in construction of Gloucester & Rockport Street Railway Co. struck for more pay. July. George J. Tarr & Co. began erection of glue and isinglass factory to replace one destroyed by fire in February. August. Gardner A. Churchill of Rockwell & Churchill, printers, Boston, died .- Strike of journeymen sailmakers occurred; settled in October. November. Gloucester Net & Twine Co. resumed operations after few weeks' idleness.

Grafton. In February, S. A. Forbush, shoes, ran overtime. — Edge finishers at factory of J. S. Nelson & Son Shoe Co. struck; settled. March. Wages reduced at Farnumsville Cotton Mill. May. J. S. Nelson & Son Shoe Co. shut down for stock taking. Wm. Paton, shoe strings, shut down one week for repairs. July. Saundersville Cotton Mill shut down for one week on account of dull trade; resumed. August. Farnumsville Cotton Mill shut down indefinitely. December. J. S. Nelson & Son Shoe Co. resumed full time.

Great Barrington. In January, Endrick Woollen Co. organized. ---- Arrangements made for starting up mills of Owen Paper Co. after shutdown of two years. February. Riverdale Mills, cottons, added new looms. April. Strike for shorter working-day occurred among masons. May. Endrick Woollen Co. ran full; in June, reorganized. November. Riverdale Mills, cottons, ran overtime. December. Endrick Woollen Co. resumed operations after shutdown.

Greenfield. In February, Pierce-Davenport Co. organized to manufacture lubricant for bleycles. — Charles R. Field, children's carriages, died, aged 68 years. March. R. H. Eddy & Son, wood turners, added 20 horse power boller and engine. April. Cutler, Lyons, & Field, shoes, ran with reduced force. May. Wells Bros. & Co., machinery, began erection of new building, 80 x 100 feet. — Wiley & Russell Manufacturing Co., machinery, began erection of brick building to replace wooden ones, 50 x 130 feet, two stories. June. Cutler, Lyons, & Field, shoes, shut down for inventory. August. Franklin Shoe Co. reorganized. December. James L. Thayer established manufacture of shoes. — Franklin County Lumber Co. began erection of addition to factory.

Greveland. In November, Veazie & Hale started up Groveland Mills, woollens, on full time.

Hadley. In September, Crosier & Sons established manufacture of fish poles.

Hampden. In August, Hampden Woollen Co, ran overtime.

Hardwick. In January, George H. Gilbert Manufacturing Co., woollens, added new machinery. October. Joseph Lamontagne received patent on paper pulp engine.

Hatfield. In July, grist mill destroyed and Porter Machine Works damaged by fire.

HAVERHILL. In January, Perley Weeks, shoes, restored prices. — Lennox & Briggs, leather, increased power and ran overtime. - Business of E. P. Wentworth, cut soles, continued by Arthur D. Wentworth. - Towle & Dow, shoes, of Northwood, N. H., returned to this place. - French & Neal, heels, dissolved; business continued by J. G. French as J. G. French & Co. - Charles H. Goodwin & Co., shoes, moved to Holliston. --- Nathaniel K. Johnson of Hodgdon & Johnson, shoes, died, aged 67 years. James H. Winchell of J. H. Winchell & Co., shoes, died, aged 62 years; business continued by remaining partners under same style. February. Blake Bros., shoes, added manufacture of men's goods. - T. M. Arnold & Co. established manufacture of cut soles. - W. H. Davis & Co., shoes, dissolved; business continued by W. H. Davis. -Perley Weeks, shoes, secured additional quarters. --- C. A. Ellis, shoes, became member of Gale Shoe Co.; business to be continued till May 1. - M. A. Howe & Co., paper boxes, damaged by fire. March. Elmer S. Harris granted patent on inseam trimming machine and Alby S. Harris on carriage for rounding out machines; both used in shoe manufacture. - T. M. Arnold & Co. purchased building, 55 x 79 feet, for cut sole factory. --- J. H. Robbins & Son established manufacture of carriages. --- Freeman Bros., shoes, removed from Portland, Me., to this place. - Rosemont Carriage Co. increased facilities. - Nichols & Jackson established manufacture of brooms. - Power furnishing plant of Chase & Laubham and C. H. Hayes, boxes, shut down for repairs. Woodman & Hubbard, shoes, succeeded by S. Frank Woodman. -- Stevens & Co., woollens, Chase & Laubham, power, W. B. Thom & Co., hats, Neal & French, heels, C. P. Bullen and F. N. Livingston & Co., findings, Searl & Webster, H. B. Goodrich & Co., Thayer & Maguire, Blake Bros., and Hodgdon & Johnson, shoes, Gale Shoe Co., and other firms damaged by flood and temporary shutdowns occurred in consequence. — Chesley & Rugg, shoes, damaged by fire. April. Plans made for addition, 40 x 100 feet, seven stories, to shoe factory of J. H. Winchell & Co. - J. C. Dow & Co., tips, and Thomas M. Arnold & Co., cut soles, moved into new quarters. - Eleven firms manufacturing shoe tips made an agreement to shut down on Saturday. May. Stevens & Co., woollens, decided to put new looms in old glass factory and increase force.——Portion of plant of Stewart & Potter Last Co. of New York, established in this place.——George B. Case, shoes, changed from contract work to personal manufacture. — E. S. Harris & Co., shoes, discontinued manufacture; machinery sold to A. J. Tilton. - Bray Bros., cut soles, dissolved; business continued by E. A. Bray and W. S. Bray separately. - S. C. Bassett & Co., slippers, dissolved. — Blake Pattern Co. added new last lathe. — J. A. Dairympie & Co., shoe trimmings, enlarged space. — Repairs made at factory formerly occupied by Miller & Foster. --- Greeley, Hilliard, & Smith, shoes, moved into new quarters. — Luther Day, shoe manufacturer, died, aged 65 years. — Edmund K. Appleton, formerly of Appleton & Bassett, shoes, died, aged 27 years. - Eben D. Bailey, formerly of Hersey, Bailey, & Co., died, aged 78 years. — Factory of A. Currier & Son, shoes, damaged by fire. June. Lennox & Briggs, morocco, secured larger quarters. -Chas. W. Arnold, shoes, increased force. - John H. Connor, shoes, discontinued

manufacturing. - H. M. Vine retired from firm of A. E. Fernald & Co. -_ T. Johnson & Son, shoes, reduced force, --- S. C. Bassett & Co., shoes, dissolved; business continued by S. C. Bassett under same style. - Hilliard & Taylor, shoes, and Kennedy & Newton, leather, damaged by fire. July. F. M. Hodgdon succeeded Hodgdon & Johnson, shoes. - Ellis & Mason, cut soles, secured exclusive right to manufacture patent corrugated innersoles. - J. H. Winchell & Co., shoes, shut down for stock taking. - Blake Bros., shoes, retired from business, --- Building occupied by Lennox & Briggs, morocco, and Chase & Laubham, power, destroyed by fire. August. Charles F. Lambert received patent on heel-compressing machine. - Frank Collins established manufacture of shoes. -Wm. Leighton and Harris W. Spaulding admitted to firm of W. W. Spaulding, shoes; style changed to W. W. Spaulding & Co. - Henry L. Harris, shoes, leased factory at Derry, N. H., for removal of business to that place. - Spaulding & Swett, shoes, removed to Wolfborough, N. H. - E. W. Noyes, shoes, removed to Stoneham. - Watson & Young, shoe findings, dissolved; business continued by Frank E. Watson. — Lennox & Briggs, morocco, moved into new quarters. - J. H. Winchell & Co. and Chick Bros., shoes, reduced wages. - Chesley & Rugg, shoes, shut down temporarily on account of heat. - Factory of J. J. Brimblecom, shoes, destroyed by fire. - Factories of September. W. P. Fred. K. Brooks, slippers, and A. R. Wade, heels, damaged by fire. Webster established manufacture of shoes. — R. I. Adams established manufacture of felt shoes. - Wilbur H. Gould and M. C. Cram & Co., shoes, moved into new quarters. - Knipe Bros., shoes, reduced force. October. New addition to factory of J. H. Winchell & Co., shoes, completed and business started up. — Greeley, Hilliard, & Smith, shoes, dissolved; new firm formed, Tilton, Hilliard, & Smith; later, removed to new quarters. - Henry L. Harris, shoes, removed to Derry, N. H. - Samuel M. Whitmore, bricks, shut down on account of lack of orders. — Alpheus Currier of firm of A. Currier & Son, shoes, died, aged 79 years. November. Patent granted to Milton Chase and M. H. Foster on skiving machine. - Alexander Roberts purchased factory and removed woollen manufacturing business into new quarters; style changed to A. Roberts & Co. - W. B. Thom & Co., hats, discharged employés, December. F. E. Bridges established manufacture of shoes. -- Coggswell Bros., slippers, removed from Exeter, N. H., to this place. — John W. Russ, shoes, ran nights. — Elbridge L. Dresser, retired shoe manufacturer, died, aged 87 years. --- Number of cases of shoes shipped during 1895 and 1896 were as follows:

Months	ļ	1895	1896	Монтна.			1895	1896
January, .		29,857	38,709	August, .		-	23,500	22,688
February, .		29,519	84,411	September,			20,856	21,617
March, .		47,275	36,668	October, .			20,847	26,327
April,		42,056	47,572	November,			25,546	21,227
Мау,		51,276	33,361	December,			23,875	43,143
June,		31,599	30,706	TOTALS,			366,910	886,123
July,	.	20,704	29,694	ij		ı		

Increase in 1896 over 1895, 19,213 cases; or 5.24 per cent. Reckoning 40 pairs to a case, there were in 1895, 14,676,400 pairs shipped, and in 1896, 15,444,920 pairs.

Hinsdale. In June, Hinsdale Bros., wooliens, ran on short time; in July, shut down indefinitely; in November, started up portion of machinery on pattern work.

Holbrook. In January, cutters in shoe factory of J. B. Billings & Co. resumed February. Goeres Bros. established manufacture of shoes in this place. — T. J. Strickland of Strickland & Pierce, shoes, died. - J. B. Billings & Co., shoes, damaged by April. Thos. White & Co., shoes, and Paine Shoe Co. ran nights to fill orders. May. O'Neill Shoe Co. incorporated; capital stock \$5,000. August. Thomas White & Co., shoes, resumed operations after several weeks' shutdown for repairs. Paine Shoe Co. reduced force.

Holden. In March, plants of East Lake Woollen Co., Jefferson Manufacturing Co., North Woods Woollen Co., and Cyrus G. Wood, woollens, damaged by flood. April. Two story shoddy mill operated by Courtney & Reynolds destroyed by fire. July. Jefferson Manufacturing Co., woollens, reduced running time to three days per week.

Hellistem. In January, Charles H. Goodwin & Co., shoes, removed from Haverhill to this place. May. John Clancy, shoes, added new treeling machines. July. Harness factory of Hughes & Co. shut down; resumed operations in November. August. C. F. Driscoll. shoes, shut down.

HOLYOKE. In January, Barlow Manufacturing Co. of Boston, a new corporation, began manufacture of adjustable window fixtures. - New addition to Lyman Mills, cottons, completed and machinery set up. - Holyoke Paper Co. changed from part to full time. - C. H. Baush of C. H. Baush & Sons, machinists, died. February. Merrick Thread Co. equipped mills with humidifiers. --- Hadley Thread Co. added speeders. March. New building at factory of William Skinner & Sons, silks, completed. --- Farr Alpaca Co, shut down portion of weaving department and reduced running time. American Pad & Paper Co. moved into new building; of brick, 60 x 125 feet. --- Deane Steam Pump Co. reduced running time. - George C. Gill patented invention for promoting the efficiency of dryers attached to paper machines. - C. H. Baush & Sons, machinery, succeeded by Baush & Harris; capital stock \$75,000. --- Albion Paper Co., after shutdown, allowed to run limited time. - Keating Wheel Co., bicycles, ran nights. April. Nonotuck Paper Co. made plans for addition to mill No. 2.— No. 1 mill of Whiting Paper Co. shut down for improvements. --- Newcomb Filter Co. organized to manufacture filters, the invention of C. L. Newcomb; capital stock \$5,000. - Parson & Green. paper, removed from New York to this city. - Massasoit Paper Manufacturing Co. notified employés of proposed reduction in wages. --- Holyoke Warp Co., cottons, increased floor space and added machinery. - Plant of Holyoke Hydrant & Iron Co. purchased by parties in Northampton, who decided to remove it to that place. --- Charles Harvey Heywood, paper manufacturer, died, aged 57 years. May. Portion of government contract for furnishing envelopes awarded to Holyoke Envelope Co. - Parsons Paper Co. No. 1 and Parsons Paper Co. No. 2 combined as Parsons Paper Co; capital stock \$360,000, --- Crocker Paper Co. conducted successful experiments in new sort of paper. - Levi D. Van Valkenburg granted patent on lead pencil and pen-holder attachment. --- Massasoit Paper Manufacturing Co. shut down finishing room temporarily and reduced wages. - Plans made by Baush & Harris for new factory to be erected in Springfield. - Arrangements made for the removal of Keating Wheel Co. to Middletown, Conn. - Farr Alpaca Co. shut down and resumed on short time. -Merrick Thread Co. reduced working hours; 1,800 employés affected. - Orrick H. Greenleaf, president of Holyoke Paper Co., died in Springfield, aged 73 years. Farr Alpaca Co. shut down one week for repairs. - Merrick Thread Co. ran on reduced time. --- Whiting Paper Co. began giving employés half-holiday on Saturday. July. Holyoke Water Power Co. began operating water gas plant. ---- Whiting Paper Co., Nonotuck Paper Co., George R. Dickinson Paper Co., Holyoke Paper Co., and Beebe & Holbrook Paper Co. made repairs and improvements. --- Holyoke Hydrant & Iron Works removed to Northampton .- Parsons Paper Co. shut down for repairs. ---- Riverside Paper Co. shut down for repairs during three weeks and resumed. -Andrew Buchanan of Buchanan, Bolt, & Co. died, aged 45 years. --- Messengers employed by Western Union Telegraph Co. struck for more pay. August. Crocker Manufacturing Co., paper, completed new mill and started up that portion of plant. -Riverside Paper Co. added new boilers. - Whiting Paper Co. shut down temporarily for repairs. --- Farr Alpaca Co. shut down on account of lack of orders. -Germania Mills, woollens, ran on short time. --- Lyman Mills, Nos. 2, 3, and 4, shut down on account of dull market; 700 employés affected; in September resumed. September. Morris W. Moore granted patent on fountain pen. - Farr Alpaca Co. resumed operations on reduced time. — Riverside Paper Co. started up No. 1 mill. — Connecticut River Manufacturing Co., lumber, resumed operations. --- Improvements completed at mill of George R. Dickinson Paper Co. and plant started up. - National Blank Book Co. reduced working time. October. William Skinner Manufacturing Co., silks, resumed operations. - Merrick Thread Co. started up mills Nos. 1, 2, and 8 on reduced time. - Albion Paper Co. re-organized; capital stock \$550,000. - Seymour Cutlery Co. re-organized; capital stock \$25,000. --- Strike occurred among steam fitters. November. Patent granted Alvan E. Olney on chimney mechanism. — Farr Alpaca Co. increased running time. — Alterations and repairs made at plant of Albion Paper Co.

December. Patent granted Dennis J. Landers on drainer floor and tile. — Nonotuck
Paper Co. added oscillating machines. — Merrick Thread Co. increased running time.

Hopedale. In January, Hopedale Machine Co. ran overtime to fill orders. --- Hopedale Elastic Goods Co. reduced working hours. February. Dutcher Temple Co. shipped March. E. S. Stimpson invented loom shuttle and J. H. goods to Shanghai, China. Northrup invented loom thread-parter. May. Hopedale Machine Co. shipped looms to Russia. --- Charles E. Nutting granted patent on self-threading loom shuttle; assigned June. George Draper & Sons, machinery, built addition to to G. Draper & Sons. office buildings. July. Charles H. Colburn, retired manufacturer, died, aged 60 years. August. Hopedale Machine Co. reduced running time; in October, received order from Mexico. November. Patent granted to Charles A. Lapworth on lamp shade or reflector December. Patent granted to William F. Draper and J. H. Northrup on loom. holder.

Hopkinton. In January, cutters at factory of Woodville Shoe Co. commenced work. March. Woodville Shoe Co. incorporated; capital stock \$25,000. May. A. Coburn Boot & Shoe Co. incorporated; capital stock \$75,000. August. Crooks, Root, & Co., shoes, shut down for repairs. — Woodville Shoe Co. shut down for stock taking.

Hudson. In January, Hudson Worsted Co., new firm, started up plant on full time. March. L. T. Jefts, shoes, started up on ten-hour time. —— Apsley Rubber Co. resumed work. —— George Houghton, retired shoe manufacturer, died. April. Thos. Taylor & Sons, elastic webs, ran nights. —— Bradley & Saywood, shoes, set up new engine. July. Luman T. Jefts, shoe manufacturer, died, aged 68 years. August. Apsley Rubber Co. and Hudson Worsted Co. resumed operations after idleness of several weeks. —— C. M. Brett, shoes, added new lasting machine; in October, placed new boiler. October. Stowe, Bills, & Hawley, shoes, dissolved; succeeded by Stowe, Bills, & Hawley Co. November. Patent granted Sidney W. Sampson on valve.

Huntington. In February, Highland Mills, woollens, shut down indefinitely. August. Chester Paper Co. installed electric lights.

Hyde Park. In January, S. Klous & Co., gossamer rubber clothing, reduced wages. John T. Robinson & Co., paper boxes, damaged by fire. February. Norfolk Rubber Co. leased former starch factory and set up machinery to manufacture rubber cloth-March. Robert Bleakie & Co., woollens, reduced running time. April. Shoddy mill of T. H. Gray & Co. damaged by fire. May. Tileston & Hollingsworth Co., paper, began erection of new mill. - Wilton Mills, woollens, damaged by fire. June George W. Rice of Rice & Hutchins, shoes, died, aged 42 years. - Buildings of American Tool & Machine Co. damaged by fire. July. B. B. & R. Knight, cottons, built addition of brick, one story, and made improvements; reduced to two-thirds time. August. Robert Bleakie & Co., woollens, resumed full time. September. E. C. Morris Safe Co. reduced force; in December, shut down indefinitely. November. Patent granted Jas. A. Tilden on fluid atomizer.

Ipswisch. In February, isinglass factory of Norwood & Son shut down after annual run. — F. L. Cartledge granted patent on sinker holder for knitting machines. — April. Ipswich Mills, hosiery, added humidifying machines. — Paper box factory of James W. Bond destroyed by fire. May. Thomas G. Plant Co., shoes, Lynn, leased factory to establish branch of business in this place. June. Farley & Danlels, shoes, started up. — Additional story built at Thomas G. Plant factory and business started up. August. Remaining portion of business of Thomas G. Plant Co. removed from Lynn to this place; sympathetic strike occurred among cutters and lasters. November. Ipswich Mills, hosiery, increased to full time; in December, ran nights. December. Thomas G. Plant Co., shoes, removed to Roxbury.

LAWRENCE. In January, accident to machinery caused temporary shutdown at Pacific Mills.—Stock subscribed and plant secured for manufacture of pneumatic bicycle saddles.—Weaving department of Washington Mills Co. ran overtime.—W. R. Hamilton & Son, wool combers, added machinery.—Emmons Loom Harness Co. purchased old box factory and demolished it; plans made for brick building, 60 x 140 feet, three stories, to be erected on site.—New plant of Lawrence Lumber Co. completed; main building, 70 x 294 feet, two stories.—Thomas Clegg, retired manufacturer, died, aged 76 years.—Pacific Mills damaged by fire. February. Plans made for new en-

gine and boiler house at factory of George E. Kunhardt, woollens. --- Washington Mills Co. added four new water wheels, aggregating 1,100 horse power. - Brown & Ackrovd. woollens, leased additional quarters and moved weaving, burling, and dressing depart-March. Arlington Mills reduced running time because of over-production: plans made for erection of new building, 110 x 670 feet. - Following corporations damaged by flood and shut down temporarily: Everett Mills, Pacific Mills, and Washington Mills. — Warren E. Rice Co., bookbinders, damaged by fire. April. Caleb T. Briggs retired from Briggs & Allyn Manufacturing Co., sashes, doors, and blinds; interest sold to George W. Copp of Methuen. - Pacific Mills began erection of new storehouse 100 x 225 feet, seven stories. -- Lawrence Duck Co., cottons, shut down temporarily. -Everett Mills, cottons, shut down for stock taking and resumed; later, reduced running time to 40 hours. - Washington Mills Co. shut down for one week and resumed on short time. - Pemberton Co., cottons, reduced running time to 40 hours. May. Arlington Mills awarded contract for new mill, 105 x 600 feet, five stories. --- Washington Mills Co. added new machinery. --- Charles Schrebler granted patent on bagging machine and Walter B. Fowler on draft regulator for chimneys. - Work begun on new factory of Emmons Loom Harness Co. — Artemus W. Stearns, president of Wright Manufacturing June. Excavations for new building at Arlington Co., woollens, died, aged 80 years. Mills begun. --- Merrimac Paper Co. added new engine and boiler. --- Pemberton Co., cottons, announced two months' shutdown for repairs and on account of dull trade. ---Weaving and finishing departments of Washington Mills, woollens, resumed full time: later, plant shut down; in July, resumed on reduced time. July. E. Frank Lewis. wool scourer, made plans for addition to storehouse, of brick, two stories, ---- Pacific Mills shut down for two weeks and resumed on full time: new machinery erected .-Pemberton Co., cottons, shut down for two months. --- Everett Mills, cottons, shut down August. Washington Mills Co. resumed for two months; 1,200 operatives affected. operations on full time. - George E. Kunhardt, woollens, resumed operations after shutdown of one month for repairs. - Everett Mills, cottons, made changes in machinery. - Pacific Mills installed new feeds. ---- Washington Mills Co. placed new boilers. -Stanley Manufacturing Co., sewing machines, reduced running time. --- Print works department of Pacific Mills shut down; 2,500 operatives affected. - Arlington Mills shut down for five weeks; 8,000 operatives affected. September. Atlantic Cotton Mills added two new engines. --- Arlington Mills started up portion of plant. --- Pacific Mills resumed operations. - Russell Paper Co. shut down for repairs and resumed. -Washington Mills Co. shut down few days for repairs. --- Lawrence Line Co. discontinued manufacturing. October. Everett Mills, cottons, resumed operations, - Remaining portion of Arlington Mills resumed operations; additional land purchased .-Plant of Washington Mills Co, woollens, damaged by fire. November. Stanley Manufacturing Co, sewing machines, increased force. - Patent granted J. E. Glidden, administrator for Charles W. Glidden, on heel nailing machine. - Washington Mills Co. resumed operations after shutdown occasioned by fire. - Arlington Milis set up new boiler of 1,500 horse power. --- Pemberton Co., cottons, completed repairs and started up. -- Charles C. Holt, pump manufacturer, died, aged 65 years. December. Pacific Mills made improvements in dyeing department. — Samuel Smith, machinist, began erection of factory building, 50 x 64 feet, four stories. - Work of rebuilding dyehouse destroyed by fire at plant of Washington Mills Co. begun. - Atlantic Cotton Mills ran full on orders from Japan.

Lee. In January, arrangements made for starting up Morley Paper Mill. ary. Smith Paper Co. refitted Valley Mill for manufacture of tissue paper. - Thistle Wire Co. added two wire looms. — Hurlbut Paper Manufacturing Co. made repairs in machine room. March. Paper mills shut down temporarily on account of high water. April. John Dowd, manufacturer of paper machinery, died, aged 71 years. Smith Paper Co. started up Vailey Mill on half time. — Benton Bros., paper, shut down temporarily for repairs. June. Smith Paper Co. refitted Eagle and Columbia Mills for July. Geo. K. Baird & Bro. incorporated as G. K. Baird manufacture of tissue paper. Paper Co. — Smith Paper Co. shut down Eagle Mill for several days. — Gray & Sons, lumber, reduced force. August. G. K. Baird Paper Co. shut down for repairs. tember. Eaton, Dikeman, & Co., paper, shut down for repairs. — Smith Paper Co. made improvements at Eagle and Valley Mills. October. Hurlbut Paper Manufacturing Co. shut down for repairs and Smith Paper Co. shut down temporarily on account of low water. November. Smith Paper Co. re-adjusted time at Valley Mill .--- Hurlbut Paper Manufacturing Co. resumed operations. — James F. Benton, paper manufacturer, dled, aged 57 years.

Leicester. In January, Bisco & Denny, machinery, increased running time. February. J. J. Murdock, card clothing, increased running time. - Newton Darling. satinets, suspended operations temporarily; resumed in March after shutdown of two weeks. June. Woollen mills of Newton Darling, Eli Collier, George Mann & Bro., and Darling, Thaver, & Co. shut down. August. Leather department of American Card Clothing Co. shut down indefinitely. September. Woollen mill of E. A. Butler damaged by fire; shut down in consequence; in October, resumed.

Lenox. In June, P. J. Honeyman began manufacture of golf clubs and balls.

Leominster. In January. Leominster Horn & Supply Co. started up; to manufacture chemicals for dyeing, etc., from horn waste. --- George A. Gane, shirts, reduced running time. - New factory of Richardson Piano Case Co. completed. February. George W. Wheelwright Paper Co. added new paper making machine.-Manufacturing Co., leather, reduced working force. - Plant of W. S. Reed Toy Co. destroyed by fire. March. George W. Wheelwright Paper Co. added new engine. May. E. B. Kingman & Co., combs and jewelry, reduced force. June. Danforth Chemical Co. organized; to manufacture powder poisonous to insect life. July. Leominster Shirt Co. removed business from Provincetown and began erection of addition, 35 x 35 feet, two stories. -- Geo. A. Gane, shirts, resumed operations on full time after shutdown. - E. M. Rockwell, woollens, started up on full time. - Leominster Worsted Co. ran on reduced time. - F. G. Smith Piano Case Co. reduced wages. August. F. A. Whitney Carriage Co. installed system of electric time registering. — B. F. Wood & Co., grain, installed machine for cleaning grain. --- Furniture factory of N. C. Boutelle damaged by fire. September. Merriam, Hall, & Co., furniture, ran on short time. Leominster Worsted Co. increased running time.

LOWELL. In January, Tremont & Suffolk Mills, cottons, petitioned for permission to increase capital stock to \$3,000,000 and to do business outside of State; granted in February. - Faulkner Mills, woollens, ran on short time on account of lack of orders; in February, shut down. - Safety Seamless Pocket Co. removed from Plymouth to this place. - Lowell Hoslery Co., Tremont & Suffolk Mills, cottons, and Merrimack Manufacturing Co. added new machinery. - Lowell Weaving Co. organized; capital stock \$30,000. — Hamilton Manufacturing Co. damaged by fire. February. U. S. Bunting Co. shut down portion of weaving department for repairs. --- Tremont & Suffolk Mills added new mules. --- Rubber goods business of Haywood Bros. submerged into stock company under name of Lowell Rubber Co. - Lowell Hosiery Co. added automatic knitting frames and revolving flat cards. - Jute card mill of Samuel E. & T. Stott dam-March. James H. Dugdale purchased Standard Worsted Mill. -- Suaged by fire. preme Court decided that proposed textile school could be established in this place under provision of legislative act. - Lawrence Manufacturing Co., cottons, added four 54inch water-wheels; decided to confine product to hosiery. -- Lowell Manufacturing Co., carpets, made plans for new dychouse. - Red Seal Manufacturing Co., toilet articles, secured quarters for removal of business from Rockland, Me., to this place. made for erection of new factory for Sturtevant & Galer, woodworkers; of wood, 50 x 150 feet, three stories. --- Merrimack Manufacturing Co., cottons, resumed work after week's shutdown. - Lowell Manufacturing Co., carpets, began to run Brussels department alternate weeks. --- All the mills in the city damaged by flood which occasioned temporary shutdowns; from 15,000 to 20,000 persons affected. - John S. Jacques, shuttle manufacturer, died, aged 83 years. April. Shaw Stocking Co. added new looms. --- Myron Bros., shoes, made plans for erection of new factory building, 50 x 80 feet, two stories. - U. S. Bunting Co. and Walsh Woollen Mills reduced running time to three days per week. --- Lawrence Manufacturing Co., cottons, in conformity with decision to discontinue the manufacture of cloth, shut down No. 5 mill permanently; between 1,500 and 2,000 operatives affected. - Box factory of James A. Thompson destroyed by fire. May. Merrimack Manufacturing Co., cottons, shut down temporarily. - Steam pipe in weaving room of Appleton Co., cottons, fell, causing temporary shutdown; weavers on fancy goods struck for increase in pay; resumed work later. June. Bourne Bleachery organized to bleach, dye, and finish yarns and fabrics; capital stock \$100,000. Boott Cotton Mills added new picking machinery. ---- Appleton Co., cottons, received order for 2,000 bales of goods for China. - Quarters secured for establishment of public textile school. - Lowell Machine Shop made repairs on office buildings. — Lowell Hosiery Co. suspended operations for one week. —— Merrimack Manufacturing Co., cottons, shut down temporarily for repairs and stock taking. - Pickering Knitting Co. and dyehouse of Middlesex Co., woollens, shut down. --- Mule spinners at Boott Cotton Mills struck; settled. July. Massachusetts Mohair Plush Co. increased equipment of plant. - Mill No. 5 of Lawrence Manufacturing Co., cottons, purchased by Tremont & Suffolk Mills Co. - Lowell Manufacturing Co., carpets, resumed full time. --- Card room of Tremont & Suffolk Mills Co. ran nights. -United States Bunting Co., woollens, ran on three-fourths time. --- Atherton Machine Co. shut down for two weeks. ---- Middlesex Co., woollens, shut down indefinitely; 1,000 operatives affected. - Hamilton Manufacturing Co., cottons, shut down for two weeks, -W. H. Carter, woollens, shut down. - Union Iron Foundry damaged by fire. August. Hamilton Manufacturing Co., cottons, resumed operations. - Lowell Manufacturing Co., carpets, shut down for one week; repairs made and operations resumed. - Merrimack Manufacturing Co., cottons, shut down for three weeks; repairs made and operations resumed. - Lowell Machine Shop ran on reduced time. - Lowell Hosiery Co. and Shaw Stocking Co. shut down. - Lowell Weaving Co., cottons, shut down for four weeks. -- No. 2 mill of Belvidere Woollen Manufacturing Co. shut down for four weeks. - Stirling Mills, woollens, shut down. September. Whitall Manufacturing Co. incorporated: to manufacture cotton underwear. --- Consumers Brewing Co. began erection of addition, 50 x 54 feet, three stories, - Dveing department of Lowell Hosiery Co. started up. - Middlesex Co., woollens, started up portion of plant. -Tremont & Suffolk Mills Co., cottons, placed new picking machinery in No. 5 mill acquired from Lawrence Manufacturing Co. - Lowell Manufacturing Co., carpets, shut down alternate weeks. --- Plant of Tremont & Suffolk Mills Co. shut down temporarily on account of low water. --- Hamilton Manufacturing Co., cottons, shut down portion of plant. October. Charles Littlefield invented attachment which converts an ordinary loom into a continuous running loom by removing the empty shuttle and replacing it by one already filled without abating the speed of the machine. --- A. P. Hooker and others started new mill for weaving novelties in woollens. - W. H. Parker & Sons, bobbins, received order from China. - Lowell Hosiery Co. started up in full. - Lamson Consolidated Store Service Co. ran overtime. - Thomas C. Entwistle, cotton machinery, increased capacity. --- Haworth & Watson, cop tubes, moved into new factory, -Lowell Machine Shop ran on half time. --- Lowell Manufacturing Co., carpets, ran alternate weeks. - Kitson Machine Co. shut down indefinitely. November. Tremont & Suffolk Mills Co. started up mill purchased from Lawrence Manufacturing Co.; 1,000 persons employed. --- Patent granted to Edward W. Thomas on fire extinguishing system. - Middlesex Co., woollers, made repairs. - Merrimack Manufacturing Co., cottons, shut down for stock taking. - Cotton in yard at Massachusetts Cotton Mills destroyed by fire. December. Kitson Machine Co. increased force. - Middlesex Co., woollens, reduced running time. --- William Cleworth, reed manufacturer, died, aged 75 vears.

Ludlew. In July, storehouse of Ludlow Manufacturing Co., jute, damaged by fire; in September, made improvements in fire protection system and made plans for erection of eight new stock houses, 40×150 feet; in October, bagging department shut down; 300 operatives affected.

LYNN. In January, cut sole business of W. S. Dickson purchased by Keck, Mosser, & Co. of Boston. - S. B. Breed and A. W. Clapp formed partnership and established manufacture of cut soles. - O. L. Upham established manufacture of cut soles. - C. S. Sweetser, shoes, retired from business; plant sold at auction. --- Addition completed at shoe factory of D. A. Donovan & Co. - New factory of J. B. Renton, heels, completed. - Frank E. Holt invented machine for counting ballots. - D. J. Donohue, morocco. successor to Donohue & White, ran overtime. — Dickinson & Leadbetter, slippers, dissolved; succeeded by Joseph Dickinson. - Preble & Worth, shoes, dissolved; succeeded by E. P. Worth. - Bailey, Curtis, & Co., shoes, succeeded by Bailey & Curtis. -Following shoe firms moved into new quarters: Haskell, Rich, & Co., Seymour & Jackson, and E. P. Worth. - John B. Alley, retired shoe manufacturer, died, aged 79 years. - Shoe factory of Mark J. Worthley damaged by fire. - Edge-makers employed by Luddy & Currier, shoes, struck for increase. — Cutters at factory of West Lynn Shoe Co. struck because of cutdown; settled at former rate. February. Keck, Mosser, & Co., leather, refitted Dickson property and leased additional quarters. --- James T. Lennox became special partner in shoe business of Joseph Dickinson. — Eckhardt & Ford, shoes, increased space. — Carlton, Tuttle, & Co. and F. L. Spinney & Co., shoes, dissolved .- John M. Noyes Shoe Co. made arrangements for removal to Barre. -William F. Abbott of Abbott Slipper Co., died, aged 60 years; business continued by partner under same style.-- N. F. Tucker & Co., shoes, discharged lasters; lockout declared March. Durland & Litch, counters, dissolved; name changed to by Lasters' Union. Durland & Co. - James J. Donohue admitted as partner in morocco business of D. J. Donohue: name changed to Donohue Bros. --- W. S. Boyce & Co. established manufacture of shoes. --- H. F. McCarthy & Co. and Jas. J. Grover's Sons, shoes, moved into new quarters. --- N. F. Tucker & Co. shoes, removed to Middleton. -Thomas W. Gardiner, late of Porter & Gardiner, Worcester, leased factory for manufacture of lasts, --- George E. Bartlett, retired shoe manufacturer, died, aged 76 years, --Cutters at shoe factory of L. J. Richards & Co. and lasters at shoe factory of Joseph Dickinson struck because of wage difficulties. April. Solid Shoe Co. resumed operations after shutdown for stock taking. --- John B. Renton moved into new factory. - Nicolas Weber & Son, morocco, succeeded by Weber Leather Co.; incorporated; capital stock \$5,000. - Paul, Greenwood, & Jones, shoes, dissolved; plant purchased by Chris. C. Blaisdell.— Leonard Shoe Co. put in lasting machines and discharged lasters and sole layers.—John F. O'Hara, formerly of J. F. O'Hara & Co., shoes, died in Worcester, aged 31 years. -- Lockout of lasters occurred at factory of National Shoe Co. - Teamsters in employ of Reed & Costello, coal dealers, struck because of dissatisfaction with wages. May. L. J. Richard & Co., shoes, dissolved; business continued by Mr. Richard under same style, --- Nourse & Oliver, shoe patterns, dissolved. - Following new firms established: Imperial Stain Co., East Lynn Shoe Co., Morning Star Shoe Co., Century Shoe Co., Alex Haines, shoes, and Perfection Shoe Co. --Patents granted as follows: David T. Knox. on machine for cutting block soles: Zotique Beaudry, on burnishing tool for boot and shoe heels: Walter S. Moody, on alternating current generator: assigned to General Electric Co. - Factory of E. C. Blake, lasts, damaged by fire. --- Lasters at shoe factory of D. J. Richard struck. June. West Lynn Shoe Co. built additions to factory, 25 x 40 and 15 x 20 feet. tus E. Winkley granted patent on relasting machine. --- Murray Shoe Co. and Howard & Dalev established manufacture of shoes. --- Abbott Slipper Co., succeeded by Lynn Slipper Co.; incorporated; capital stock \$5,000. - Century Shoe Co. succeeded by Warwick Shoe Co. - Hill & Green, shoes, removed from Pittsfield, N. H., to this place. - P. H. Nourse & Co., counters, dissolved; business continued by P. H. Nourse; moved into new quarters. — S. J. Hollis & Co., shoes, dissolved. — J. M. Noyes Shoe Co. removed to Barre. - Durgin & Tuttle, shoes, shut down. - Shirley & Gibson, shoes, discontinued business. --- V. K. & A. H. Jones reduced force. --- Edward T. Bubier. retired shoe manufacturer, died, aged 71 years. - Franklin Foss, shoe manufacturer, died, aged 69 years. July. Charles H. Walden admitted to firm of Hoag & Heath; style changed to Hoag, Heath, & Co. — Melanson & Roop, shoes, dissolved; succeeded by Melanson & Currier. — Charles F. Stackpole granted patent on sole-edge burnishing machine. --- Eugene H. Taylor granted patent on beating-out machine. --- William H. Nourse, formerly of P. H. Nourse & Co., shoe findings, established manufacture of counters, stiffenings, etc. — Chas. E. Blake & Co., shoes, added new boiler. — J. F. Swain & Co., shoes, consolidated with Winsted (Conn.) Shoe Co. and announced intended removal to that place. - C. F. Fox & Co., shoes, advertised stock, machinery, etc., for sale. --- Williams, Clark, & Co., shoes, and Brophy Bros. Shoe Co. shut down for repairs and resumed. -- Berry Shoe Co. discontinued manufacturing. -- Preble Bros., shoes, closed factory in this place. - Long & Gloyd, shoes, suspended operations temporarily. -Thomas G. Plant & Co., shoes, discharged lasters; strike inaugurated; firm began erection of factory in Boston. --- Albert T. Goodwin, retired last manufacturer, died, aged 84 years. - Last factory of E. C. Blake and shoe factory of Chas. F. Fox & Co. damaged by fire. August. E. H. Taylor invented machine for making heels. - Lynn Heel Co. increased space. - Chas. F. Fox & Co., shoes, discontinued manufacturing. -Strike occurred at shoe factory of Thomas G. Plant Co., followed by removal of firm to September. Seth D. Tripp granted patent on edge-finishing machine. -Mrs. C. H. King Co., shoes, changed style to King Shoe Co. — J. P. Griffin & Co. purchased business of W. F. Sheehan, lasts .--- Arrangements made for the removal of Brush Electric Co. of Cleveland, Ohio, to this place; to occupy plant of General Electric Co. — M. C. Mason & Co., shoes, sold out. — J. Frank Harris, shoes, ran with reduced force. — Factory of Faunce & Spinney, shoes, damaged by fire. October. John R. McManus and Thomas F. Hart received patent on machine for manufacturing shoe stiffenings. --- Joseph Gaunt & Co., shoes, increased capacity. ---- Atkins, Hoyt, & Co., cut soles, established manufacture of new line. - William T. Ash, shoes, decided to remove plant to Brooklyn, N. Y. - Legro & Spaulding, shoes, decided to remove to Maine. - G. Willis Hanson, cut soles, and Lynn Last Manufacturing Co. moved into new quarters. — V. K. & A. H. Jones and D. J. Richard, shoes, increased force. — All shoe stain and ink manufacturers decided to close at noon on Saturday throughout the year. - Strike occurred among lasters at shoe factory of Joseph Dickinson. November. Brush Electric Co. of Cleveland, Ohio, removed to this place. - Patent granted to William D. Huntington on agricultural hand tool. - John H. Parke, shoes, removed from Claremont, N. H., to this place, -- Carr Bros., heels, removed from Woburn to this place. --- Vose Edge Finishing Machine Co. established manufacture of machines. ---D. A. Donovan & Co., shoes, added lasting machines. — Hudson Bros., heels, dissolved. - New York Shoe Manufacturing Co. discontinued manufacturing. — Kast Lynn Shoe Co. dissolved .- E. H. Stowell of E. H. Stowell & Co., morocco, died. December. Patent granted to John B. Emery on sole trimming machine and to Eugene H. Taylor on mechanical movement. — Following firms established manufacture of shoes: Thomas F. Corcoran, Cross & Tucker, and Alley & Austin, --- John F. Flynn secured quarters and re-established manufacture of shoes. - Charles F. Fox & Co., shoes, resumed operations. — Brophy Bros. Shoe Co. ran nights. — The Crossman Co., heels, dissolved by death of Isaiah Crossman; business continued by M. S. Nichols. - J. A. Cook, slippers, shut down for stock taking, --- Following shoe manufacturing firms reduced wages: C. H. Aborn & Co., Baker & Creighton, D. A. Donovan & Co., Durgin & Tuttle, Harney Bros., P. J. Harney & Co., Hoag & Heath, S. J. Hollis & Co., Luther S. Johnson & Co., Luddy & Currier, James Phelan & Sons, William Porter & Son. Shillaber & Co., A. F. Smith, C. W. Varney & Co., Welch & Landregan, and Williams. Clark, & Co. - Strike instituted against Thomas G. Plant Co., shoes, declared off. -Factory of P. P. Sherry, shoes, damaged by fire.

MALDEN. In January, Frank McDonald granted patent on heel spring. February. Boston Rubber Shoe Co. resumed work on three-quarters time after shutdown of two weeks on account of dull trade. March. Middlesex Last Co. damaged by fire. — Plant of H. H. Richards Cycling Co. destroyed by fire. April. Mechanical Manufacturing Co. purchased plant for establishment of new industry. — Factories of Boston Rubber Shoe Co. shut down for four weeks; about 2,500 operatives affected; resumed in May. June. Strike of plumbers occurred; settled. October. Boston Rubber Shoe Co. resumed operations. December. Octavius N. Coburn, inventor of improvement in rubber shoes, died, aged 72 years.

Marblehead. In March, box factory of Otis Roberts damaged by fire. July. Clark & McIntosh, shoes, dissolved. — John F. Harris, retired shoe manufacturer, died, aged 70 years. November. George E. Coates established manufacture of shoes. December. Nathaniel Sweet and Edgar M. Savoy formed partnership for manufacture of shoes. — Arrangements made for resuming operations in shoe factory of Peach Bros. after idleness of one year.

MARLEOROUGH. In January, J. F. Desmond & Co., shoes, resumed operations. February. H. O. Russell & Co., shoes, ran on reduced time. — Middlesex Shoe Factory resumed ten-hour schedule. March. S. H. Howe Shoe Co. started up portion of plant on ten-hour time. - J. A. Frye, shoes, increased running time; later in month strike occurred among heel cutters. April. Decision of State Board of Arbitration in case of Rice & Hutchins, shoes, and S. H. Howe Shoe Co. showed average reduction. - M. J. McCarthy set up machinery in factory formerly occupied by Elmer Loring. — William Dadman, retired shoe manufacturer, died, aged 79 years; Mr. Dadman was a pioneer manufacturer and builder of factory occupied by S. H. Howe Shoe Co. May. Wood & Willard, machinery, dissolved; business continued by Herbert J. Willard under style of The Wood-Willard Elevator & Machine Co. June. Employés of Rice & Hutchins, shoes, struck; settled in July and operations resumed. August. DeWolf & Bagwell, shoes, announced intention of removing to Conway. September. Frank & Duston, pa-November. Patent granted to Joseph E. Procper boxes, began manufacture of shoes. tor on machine for attaching uppers to soles of boots or shoes. --- S. H. Howe Shoe Co, started up "Diamond O" factory after shutdown of one year. - John A. Frye, shoes, increased space. December. Shipments of shoes during 1896 numbered 315,884 cases; estimating at 40 pairs to a case, number of pairs aggregated 12,635,380.

Maymard. In April, Assabet Manufacturing Co., woollens, reduced running time to four days per week; 1,100 operatives affected; in November, started up every department on 50 hours time after running irregularly; in December, reduced time.

MEDFORD. In June, stock company formed to manufacture Boston Perfection Roller Screen. November. Following patents granted: To Herbert H. McKerrow, on

apparatus for bleaching; to William Scott, on tank supply valve; to John Oldfield, on sand depositing apparatus.

Medway. In January, woollen mill of Cole, Senior, & Co. started up. March. M. A. Smith, shoes, reduced force. May. Cole, Senior, & Co., woollens, ran overtime; in June, added new engine. July. M. A. Smith, shoes, added new machinery. — Hirsh & Park, straw goods, increased force. — Cole, Senior, & Co., woollens, added machinery; shut down for repairs on dam. — Chase, Merritt, & Co., shoes, shut down indefinitely; soo operatives affected. August. Work resumed at factory of New England Awl and Needle Co. after three weeks' vacation. — Hirsh & Park, straw goods, increased force. — Chase, Merritt, & Co., shoes, removed to Mechanic Falls, Maine. — Cole, Senior, & Co., woollens, shut down for repairs and resumed; in September, repairs made on engine; in December, ran on short time. December. A. M. Smith, shoes, shut down for two weeks.

Melrose. In July, Italian laborers employed on sewer struck. November. Patent granted to Charles H. Little on cash register.

Merrimae. In June, Drew & Highley began manufacture of patent bicycle trotting sulkies. July. H. G. & H. W. Stevens, Samuel C. Pease & Son, J. B. Judkins & Sons Co., J. A. Lancaster & Co., and other carriage manufacturing firms shut down for vacation during two or three weeks and resumed. December. Carriage factory of Edward C. Hopkins destroyed by fire.

Methuen. In March, Frank A. Wardwell, inventor of extension hat brim, secured quarters at mill of Knitted Fabrics Co. and began manufacture. — Picker room at milis of Methuen Co., cottons, damaged by fire. April. Knitted Fabrics Co. ran nights temporarily. — Methuen Co., cottons, shut down one week in order to curtail production. May. Swain Manufacturing Co., knit goods, increased space and added new engine and boiler. — Methuen Co., cottons, added humidifiers; in July, shut down for repairs. July. Knitted Fabrics Co. resumed operations after shutdown. August. Methuen Co., cottons, made repairs and improvements. — Knitted Fabrics Co. shut down; in September, resumed in part. October. Methuen Co., cottons, started up in part. — Knitted Fabrics Co. ran nights; in November, resumed regular hours. December. Methuen Co., cottons, ran overtime.

Middleborough. In May, work begun on new shoe factory for Leonard & Shaw.

June. Business started up at shoe factory of Keith & Pratt.

October. Electric lighting plant installed at new shoe factory of Leonard & Shaw.

November. Leonard & Barrows, shoes, ran nights.

Middlefield. In May, property of Church Mills Knitting Co. sold to C. Herrick of West Springfield.

Middleton. In March, N. F. Tucker & Co., shoes, removed from Lynn to this place.

May. Temporary shutdown occurred at mills of Middleton Paper Co.

June. Factory of N. F. Tucker & Co., shoes, destroyed by fire.

August. Middleton Paper Co., wall paper, shut down printing department for repairs.

October. Factory formerly occupied by A. P. Tyler & Co., shoes, fitted up for manufacture of incandescent lamps by Merritt Electric Co. of Lynn.

Printers at mills of Middleton Paper Co. struck because of reduced wage schedule; settled.

December. Merritt Electric Co. began operations.

Milford. In January, Eastman & Hobart, boxes, dissolved; business continued by Hobart. February. Colburn, Fuller, & Co., shoes, introduced cheaper line of work and referred matter of prices to State Board of Arbitration; in April, settled satisfactorily. April. E. F. Pendexter granted patent on combined door look and skid. — Machinery of Milford Moulded Counter Co. sold at auction. — Lasters and fitters at factory of Milford Shoe Co. struck because of dissatisfaction with price list; settled. May. Factory of Milford Moulded Counter Co. purchased by William F., George A., and Eben S. Draper of Hopedale. July. E. E. Goff retired from firm of Goff & Welch, proprietors of Franklin Iron Foundry. — Charles H. Colburn of firm of Colburn, Fuller, & Co., shoes, died in Hopedale, aged 60 years. August. William Lapworth & Sons established manufacture of elastic fabric. — Colburn, Fuller, & Co., shoes, shut down on account of labor troubles; later, resumed in part; in September, shut down indefinitely. October.

Clapp, Huckins, & Temple, shoes, ran overtime. — Newhall & Buckley, shoes, damaged by fire. December. Colburn, Fuller, & Co., shoes, reorganized and removed business to Derry, N. H. —— C. A. Carpenter and Fred Koch formed partnership and secured quarters for the manufacture of cigars. — Ewing & Howard established the manufacture of shoes. — Greene Bros., heels, ran on three-quarters time.

Millbury. In January, Edwin Hoyle & Son, woollens, decided to build addition. 50 x 50 feet, three stories, --- Stock of Crane & Waters Co., knit goods, sold at auction; in February, plant sold in same manner. — John Rhodes Warp Co, reduced to three-quarters time. - Millbury Machine Co. resumed work at repair shop of Millbury Cotton Mills. -F. A. Lapham, woollens, shut down indefinitely. — Sash and blind factory of C. D. Morse Manufacturing Co. destroyed by fire: to be rebuilt. March. R. F. Crane, wool scourer and shoddies, leased additional quarters. - Millbury Cotton Mills reduced wages. --- Whitney, MacDuff, & Co., thread spinners, increased to full time. Cordis Mills, cottons, erected revolving flat cards. - Stock subscribed for establishment of drop forging plant. --- Plans made for improvements in water power plant at Millbury Cotton Mills. - New corporation, to be known as Portsmouth Mills Co., formed to operate the Crane and Waters hosiery mill; plant started up. May. Work begun on foundation of new factory of C. D. Morse Manufacturing Co., sashes and blinds. --- Ramshorn Woollen Mill operated by Edwin Hoyle, shut down for two weeks to allow changes to be made in product; contract awarded for new addition. - Shoddy and grist mill of John 8. Rich destroyed by fire; work of rebuilding begun in June. June. Cordis Mills, cottons, added new machinery. - Foundation for addition at Ramshorn Woollen Mill completed; building to be of brick, 48 x 49 feet, two stories. July. Milibury Cotton Mills shut down for three weeks and resumed. --- John Rhodes Warp Co. shut down. --C. T. Aldrich, woollens, ran on reduced time; in August, shut down temporarily for re-August. Portsmouth Mills Co. incorporated; capital stock \$40,000. --- Contract awarded for new buildings for C. D. Morse Manufacturing Co.; of brick; main building, 126 x 184 feet; engine and boiler house, 40 x 60 feet. - Millbury Cotton Mills shut down on account of lack of orders. --- Cordis Mills, cottons, shut down for three September. Millbury Cotton Mills shut down for repairs on enweeks and resumed. November. Patent granted to Hudson W. Hakes on hargine: in October, resumed. ness frame for looms. --- C. A. Aldrich, woollens, increased to full time. --- Edwin Hoyle shut down Ramshorn Woollen Mill indefinitely. --- Portsmouth Mills Co., knit goods, shut down indefinitely. December. John Rhodes Warp Co. made preparations for starting up. - Whitney, MacDuff, & Co., thread spinners, ran on short time.

Millis. In December, paper mill of M. Gardner destroyed by fire.

Milton. In May. H. W. Furber received patent on new style bicycle shoe.

Monroe. In November, James Ramage Paper Co. made repairs.

Meason. In February, Hermann & Lichten, straw goods, began manufacture of felt goods in new addition. *May.* S. F. Cushman & Sons, woollens, shut down for repairs on account of accident to machinery. *July.* R. M. & Theodore Reynolds, woollens, shut down; in August, resumed. *August.* S. F. Cushman & Sons, woollens, shut down for repairs. *October.* R. M. & Theodore Reynolds, woollens, added new feeds.

Mentagne. In January, foundation to new mill of Marshall Paper Co. completed.

March. Turner's Falls Lumber Co. shut down temporarily on account of ice. April.

The John Russell Cuttery Co. shut down to allow improvements in fire protection system to be made; in June, shut down for inventory.

August. Turner's Falls Cotton Mill started up on full time after shutdown.—John Russell Cutlery Co. shut down.

September. Turner's Falls Paper Co. began improvements at plant.

Natick. In March, W. F. Pfeisser & Co., shoes, reduced running time. — R. C. Dean and Wallace Griffin secured Clark & Groves factory for shoe manufacturing. April. Fessenden, Childs, & Co. and W. F. Johnson established manufacture of shoes. September. Brennan Boot and Shoe Co. incorporated; capital stock \$8,000. November. Patent granted Arthur E. Appleyard on electric heating apparatus.

Needham. In April, William Carter & Co., hosiery, added new knitting machinery.

—Firms of William Roper & Co. and Robert G. Roper & Co., knit goods, consolidated

as Roper Bros. & Co.; in May, addition built to plant. July. Wm. Mosely & Co. and William Carter & Co., knit goods, resumed operations after suspension. October. Waban Paper Co. made improvements at dam in Charles River. November. Wye Bros. & Co., knit goods, increased force.

NEW BEDFORD. In January, Dartmouth Manufacturing Corporation, cottons, began erection of storehouse. 60 x 250 feet. --- Company organized to manufacture electric dynamos; capital stock \$70,000. - Grinnell Manufacturing Corporation, cottons, began enlargement of plant. - Strange Forged Drill and Tool Co. organized. - Pierce Manufacturing Corporation, cottons, damaged by flood, February. Acushnet Mill Corporation, cottons, made plans for erection of new weave shed. - New Bedford Manufacturing Co., cottons, decided to erect new mill. --- Mount Pleasant Mills Corporation, cottons, voted to sell property at auction. --- Whitman Mills Corporation, cottons, placed new vertical cross-compound engine. - Preliminary steps taken toward establishment of bleachery. --- Pope's Island Manufacturing Co., metals, added new roll. Grinnell Manufacturing Corporation, cottons, added 25,000 spindles. --- Mt. Pleasant Mill, cottons, sold at suction, ---- Whitman Mills Corporation, cottons, started up in part. - Pope's Island Manufacturing Co., metals, ran nights and began addition, 25 x 30 feet; completed in April. -- Strange Forged Drill and Tool Co. awarded contract for erection of brick factory. April. W. S. Hill Electric Co. removed from Boston to this place. - Remaining portion of plant of Whitman Mills Co. started up. - Dartmouth Manufacturing Co., cottons, erected machinery. May. Belt room at Potomska Mills. cottons. June. Wamsutta Mills, cottons, added new machinery. damaged by fire. Alfred Isherwood granted patent on improvements in loom shuttles, consisting of a uniform holeless shuttle spring and means for holding the same in position by a locked bolt and nut. - Wamsutta Mills, 1, 2, 3, 6, and 7, cottons, shut down for repairs and resumed. - Weavers employed at Whitman Mills, cottons, struck; settled. Michael E. Sullivan invented mechanism for equalizing the difference in and compensating for variation of the strain upon yarn in ring spinning machines. --- Wamsutta Mills, cottons, added new machinery; mills Nos. 1, 2, 3, 6, and 7 began running alternate weeks in order to curtail production. --- Bennett Manufacturing Co. and Columbia Spinning Co., cottons, shut down portion of plant in order to curtail production. Wamsutta Mills, cottons, ordered new combing machines and continued alternate shutting down. - Cotton shed of Bennett Manufacturing Co., cottons, damaged by fire. October. Potomska Mills, cottons, added new machinery. — Howland Mills Corporation, cottons, made plans for addition to boiler house; of brick, 18 x 40 feet, 32 feet high. -Columbia Spinning Co. and Bennett Manufacturing Co., cottons, shut down for one week. - E. B. Tinkham Shoe Co. discontinued manufacturing. November. Pierce Manufacturing Corporation, cottons, petitioned for leave to erect cotton storehouse; of wood, 75 x 130 feet. - Acushnet Mill Corporation and Hathaway Manufacturing Co., cottons, ran overtime. - Wamsutta Mills, cottons, reduced force on account of lack of orders. December. Beacon Manufacturing Co. formed to manufacture cotton, woollen, and merino yarns; capital stock \$60,000; secured plant formerly operated by Mount Pleasant Manufacturing Co. - Drying shed of City Manufacturing Corporation, cotton yarns, damaged by fire, -- Loom fixers employed at Wamsutta and Potomska Mills, cottons, struck.

Newbury. In June, Byfield Woollen Mills resumed operations after temporary shutdown.

NEWBURYPORT. In January, new buildings of Fiberloid Co. completed. ton & Thurlow, new firm, established manufacture of shoes. — Towle Manufacturing Co., silverware, built addition. February. Operatives on hand-turned work at factory of Dodge Bros., shoes, struck for increase; granted, and work resumed. March, Vic-April. Peabody Mills, cottons, added toria Mills Corporation, cottons, reduced force. spinning frames and speeders. — Albert Russell & Sons, brass founders, purchased additional plant. --- Plans made for second story addition to clothing factory of Chas. E. Plummer. --- Bottomers and makers at shoe factory of Dodge Bros. struck because of discharge of employé; later resumed work; in May, entire force of 300 struck for same reason; places filled by other workmen and business continued. May. N. D. Dodge & Bliss Co. secured quarters formerly occupied by Wilder & Clark Shoe Co. for removal of June. Excelsior Manufacturing Co. established manufacture of shell combs. Edward Perkins Lumber Co. moved old mill and began erection of new one on aits; new mill to be 70 x 140 feet. September. E. P. Dodge Shoe Co. ran on short time.

October. Peabody Mills, cottons, reduced wages. November. E. P. Dodge Manufacturing Co., shoes, increased to full time. — Patent granted to Percy B. Jackson on combination divan and to John W. Ackerman on delivery wagon. December. Victoria Mills Corporation offered plant for sale.

New Marlborough. In May, saw mill of Wm. B. Gibson & Son destroyed by fire. September. C. B. Brewer, lumber, shut down temporarily for repairs.

NEWTON. In May, Italian laborers employed on streets struck. June. Mills of Nonantum Worsted Co. shut down permanently. ——George Pettee, formerly of Pettee Machine Co., died, aged 68 years. July. Dudley Mills, kuit goods, ran on reduced time. ——Nonantum Worsted Co. ran temporarily to close out stock. November. Patent granted to Wiltste F. Wolfe on heating and ventilating apparatus and to William S. Hamm and A. W. Raton on machine for making and driving metallic fastenings.

Norfolk. In April, paper mill of John F. Wall destroyed by fire. July. Enoch Waite began erection of new paper mill to replace one destroyed by fire. December. City Mills Co., woollens, erected new stock house.

NORTH ADAMS. In January, J. M. Canedy, shoes, enlarged plant. -Houghton decided to build new cotton mill. — Blackinton Co., woollens, shut down; in February. resumed operations. February. Linwood Mills, woollens, changed from three-quarters to full time. --- New dressing machine replaced one destroyed by explosion at mill of North Adams Manufacturing Co., woollens. — Lemuel Pomeroy, president of Blackinton Co., woollens, died, aged 40 years. March. C. T. Sampson Manufacturing Co., shoes, decided to add one story to factory. --- North Adams Manufacturing Co., woollens, shut down temporarily for repairs. - Eclipse Cotton Mill of Gallup & Houghton started up after shutdown for repairs and addition which doubled capacity. Dunbar Mills Co. and Johnson Manufacturing Co., shut down for three days and resumed on short time. --- North Adams Manufacturing Co. started up on full time after running on short time for past two months; accident to machinery caused temporary shutdown for repairs. May. Land purchased by F. J. Barber for erection of factory to manufacture fancy articles of leather. June. Blackinton Woollen Co. shut down for one week; began giving employés half-holiday on Saturday. ---- Arnold Print Works and Greylock Mills, cottons, added humidifiers. — Dunbar Mills Co. and Johnson Manufacturing Co. shut down indefinitely. July. Arnold Print Works erected iron smokestack, 128 feet high, on brick pedestal of 10 feet, and made improvements on dam .-Blackinton Co., woollens, shut down indefinitely. August. Patrick Conlon invented attachment for woollen carding machines. --- Windsor Co., cottons, made alterations and began new addition, 30 x 70 feet, three stories. - Blackinton Co., woollens, started up in part after shutdown of four weeks. --- Beaver Mill, cottons, resumed operations,-Greylock Mills, cottons, shut down. October. N. L. Millard & Co., shoes, decided to enlarge factory. — Blackinton Co., woollens, ran on reduced time. November. J. M. Canedy and W. G. Cady & Co., shoes, resumed operations. - Blackinton Co., woollens, increased running time. December. Dunbar Mills and Johnson Manufacturing Co. resumed operations. - Work begun on addition to shoe factory of N. L. Millard & Co. - Dyeing, carding, and spinning departments of Blackinton Co., woollens, shut down on account of lack of orders. - Finishers at shoe factory of W. G. Cady & Co. struck on account of wages.

NORTHAMPTON. In January, Northampton Cycle Co. began to run nights. March. New inrwary. E. M. Couch invented machine for drilling rims of bicycles. dustry, the manufacture of wire mattresses, started by Waldo H. Lamb. April. Plant of Holyoke Hydrant & Iron Co. purchased by Northampton men, who decided to remove it to this place. - E. C. Lyman, manufacturer of confectionery, died, aged 65 years. May. Norwood Engineering Co. increased capital stock from \$10,000 to \$55,000 and de-June. Belding Bros. & Co., silks, shut cided to make additions and improvements. down; in July, resumed operations. July. Holyoke Hydrant & Iron Co. and Norwood Engineering Co. consolidated and plant of former removed to this place; in August, began operations. August. Operations resumed under new management at plant of Crystal Emery Wheel Co. after one year's idleness. October. Northampton Cutlery Co. increased running time. November. Belding Bros. & Co., silks, resumed full time. - Patent granted to William H. Reece on switch throwing device and to William H. Wilder on lamp stove. December. Henry J. Walker, manufacturer of extracts, died, aged 75 years.

North Andover. In January, M. T. Stevens & Sons, woollens, ran overtime. ruary. Brightwood Manufacturing Co. organized to manufacture fine worsted goods: capital stock \$20,000; began operating in April. March. Bay State Dye Works damaged by flood. - Davis & Furber Machine Co. reduced force and began Saturday closing. - George E. Curwen, formerly of Nichols & Curwen, leather, died, aged 35 years. April. New mill erected by B. Bamforth for manufacture of fine shoddles: capacity 10 sets of cards. - Sutton's Mills, woollens, shut down temporarily for repairs. May. Stone building at North Andover Mills, used as storehouse, destroyed by fire. Davis & Furber Machine Co. ran four days per week. - Flooring gave way in building occupied by Brightwood Manufacturing Co., woollens, and Bay State Dyeing and Finishing Co., causing suspension of business. July. Company operating North Andover Mills, woollens, reorganized. --- Bay State Dyeing and Finishing Co. erected new office building, 16 x 25 feet, one story. - Sutton's Mills, woollens, shut down indefinitely. August. North Andover Mills, woollens, started up in part. — Davis & Furber Machine Co. reduced running time; in September, portion of plant shut down indefinitely. September. Sutton's Mills, woollens, started up in full. - Weaving department at woollen mill of M. T. Stevens & Sons shut down. November. Patent granted William D. Rundlett on sewing machine.

North Attleborough. In January, North Attleborough Clothes Line Supporter Co. organized and manufacture of specialty established. May. Thomas Totten & Co., jewelry, enlarged space by raising portion of factory; in June, built addition. July. William F. and George H. Mantien formed partnership under name of Mantien Bros., to manufacture jewelry. — Shaw Manufacturing Co. organized to manufacture toilet preparations. — Mason Box Co., jewelry boxes, shut down for stock taking and resumed. — E. Ira Richards & Co., jewelry, shut down temporarily. Norember. Patent granted to Henry M. Herring on check-rein fastener. December. Bugbee & Niles, jewelry, incorporated as Bugbee & Niles Co., under laws of Rhode Island; capital stock \$32,000. — Clarence P. Elliott became partner in firm of Mantien Bros., jewelry.

Northborough. In February, David F. Wood of Woodside Mills, satincts, died, aged 78 years. April. Woodside Mills, woollens, started up with reduced force. July. E. W. Chapin & Co., woollens, ran one-half of plant on full time. August. Woodside Mills, woollens, shut down indefinitely on account of dull trade; in September, resumed on full time.

Northbridge. In January, Riverdale Woollen Co. ran nights. ---- Gas house at Whitinsville Cotton Mills damaged by fire. February. Whitin Machine Works ran nights; work begun on addition to foundry, 60 x 100 feet. March. Linwood Cotton Mills started up business in new addition; carpenter shop damaged by fire; in June, erected new combing machinery. June. Riverdale Woollen Co. shut down indefinitely July. Robert K. Brown began erection of machine shop on account of lack of orders. for manufacture of sash flange and weights, his own invention. --- Whitinsville Cotton Mills and Linwood Mills, cottons, shut down for one week. - Riverdale Woollen Co. August. Whitin Machine Works awarded contract for electric ran two days per week. lighting plant; of brick, 50 x 102 feet, one story, with chimney 125 feet high. - Whitinsville Cotton Mills and Linwood Mills, cottons, shut down for one week. --- Dyehouse of Riverdale Woollen Co. damaged by fire. October. Contract awarded and foundation begun for new storehouse of Riverdale Woollen Co.: 60 x 140 feet, one story. November. Henry A. Owen received patent on top roll saddle for spinning frames .-December. Whitinsville Spinning Ring Woollen Co. resumed full time with full force. Co. reduced running time.

Northfield. In January, Frank Webster's saw mill destroyed by fire.

Norwood. In March, L. A. Merrill began manufacture of shoe tips and findings. July. Winslow Bros., leather, dissolved; business continued under same style by George F. Willettand Edward C. Mills.

Orange. In February, new shirt factory started up. — Efforts made to secure removal of shoe manufacturing firm from Lynn to this place. July. New Home Sewing Machine Co. resumed after shutdown of one week for vacation. September. Harrison H. Whitney, retired furniture manufacturer, died, aged 75 years. October. C. F. Crosby & Co., shirts, shut down for two weeks.

Oxford. In March, additional machinery placed in new woollen mill of Nathaniel E. Taft & Son and weave room started up. July. Lasters at shoe factory of A. L. Joslin & Co. struck for restoration. October. Nathaniel E. Taft, woollen manufacturer, died, aged 54 years. November. Andrew Howarth & Son, woollens, shut down for two weeks.

Palmer. In January, Rogers-Osgood Hat Co. shut down indefinitely. Otls Co., Boston Duck Co., and Thorndike Manufacturing Co., cottons, reduced running April. Plant of Rogers-Osgood Hat Co. sold at auction. --- Wright & Colton Wire Cloth Co. purchased plant of Palmer Wire Manufacturing Co. and began to make repairs. - Loftus & Williams, manufacturers of ice-crushers, sold patent to New York firm. - Thorndike Manufacturing Co., cottons, began erection of addition to tower of No. 2 mill, to accommodate tank as means of increasing fire protection system; in May, began construction of cistern and increased running time. May. Otis Co., cottons, which had been running full on half time began running half of plant on full time. July. Wright Wire Co. dissolved and consolidated with Wright & Colton Wire Cloth Co. - Boston Duck Co. built addition to boiler house: of brick, one story. August. James J. Griffin received patent on machine for cutting pipe. - Holden & Fuller, woollens, shut down on account of lack of orders. - Franklin Blanchard, retired wooden goods manufacturer, died, aged 78 years. October. E. A. Brown & Co., wagons, organized stock company: capital stock \$13,000; plans made for erection of new factory, of brick, 40 x 60 feet, three stories. - Holden & Fuller, woollens, resumed operations. - Thorndike Manufacturing Co., cottons, increased running time. vember. Holden & Fuller, woollens, resumed operations on full time.

Peabody. In January, leather factory of P. Lennox & Co. started up after shutdown. April. Wyman B. Richardson, formerly of the firm of Richardson & Doyle. leather, died, aged 71 years. June. Peter H. Brown established manufacture of innersoles. --- Newman Perkins, leather manufacturer, died, aged 67 years. --- Lasters at shoe factory of Warren, Shaw, & Co. struck for increase; shutdown of plant occurred in consequence. July. John F. Moore admitted to firm of Benjamin N. Moore; style changed to Benjamin N. Moore & Son. - A. C. Lawrence & Co., leather, began erection of new factory, 40 x 150 feet, two stories. - Glue works of George Upton shut down. George Foam & Son, morocco, discontinued manufacturing. September. New factory November, Patent granted to George of A. C. Lawrence & Co., leather, completed. F. Bailey on combined door securer and key ring chain. - A. B. Clark awarded contract for erection of new woollen mill; to be 45 x 135 feet, five stories; erection begun in December. - Tannery of Richard Smith & Son damaged by fire. December. George J. Winchester & Son, tanners, dissolved.

Pepperell. In March, Leighton Bros., shoes, shut down temporarily. July. Elbert Leighton of firm of Leighton Bros., shoes, died, aged 59 years. August. Nashua River Paper Co. made improvements in dam. October. New shoe factory established by Sliney Brothers. November. Shoe factory of Leighton Bros. purchased by Gregory & Shaw and started up. — J. J. Piper established manufacture of brooms.

PITTSFIELD. In January, Robbins-Kellogg Co., shoes, changed name to O. W. Robbins Shoe Co. February. John V. Barker, retired woollen manufacturer, died, aged 89 years. - Plant of Sprague Brimmer Manufacturing Co., shirts, destroyed by fire; in March, remaining stock sold to parties in Boston and manufacture of Berkshire shirts to be carried on there. March. Berkshire Typewriter Paper Co. organized; capital stock \$6,000. - Peck Manufacturing Co., woollens, shut down temporarily for repairs on engine. - Stock subscribed for establishment of new industry, the manufacture of window blinds. --- Pittsfield Lumber Co. placed new wood-turning machines. Italian laborers employed on public works and moulders at iron foundry of E. D. Jones' Sons & Co., struck. May. Shutdown of few days occurred at shoe factory of O. W. Robbins Shoe Co. - Masons, plasterers, and bricklayers struck for reduction in hours. June. Pittsfield Shoe Co. incorporated under laws of New Hampshire; capital stock July. Russell Manufacturing Co., woollens, added machinery. --- Berkshire Overall Co. changed name to Berkshire Manufacturing Co. - Peck Manufacturing Co. resumed operations at lower mill. — E. D. Jones' Sons & Co., iron founders, ran over-August. Work begun on new factory for manufacture of brass mouldings by Frank Burget. ---- Arrangements made by T. S. Morse for manufacture of carpenters' folding squares, his own invention. -- O. W. Robbins Shoe Co. resumed operations after two weeks' shutdown for repairs. --- Peck Manufacturing Co. resumed operations at upper mill. --- Wm. E. Tillotson and Russell Manufacturing Co., woollens, ran on short time. - D. M. Collins & Co., knit goods, shut down indefinitely: 200 operatives affected. - Taconic Mills, woollens, shut down indefinitely. September. Stanley Electrical Manufacturing Co. installed new boilers .- Russell Manufacturing Co., woollens, decided to build addition to finishing room, 80 x 85 feet. - Wm. E. Tillotson, woollens, started up card room after temporary shutdown and installed new dyeing machinery. --- Taconic Mills, woollens, resumed operations. October. John F. Kelly received patent on electrical apparatus. - Wm. E. Tillotson, woollens, began erection of addition to mill, 20 x 50 feet. - Wilson & Horton started up Bel Air woollen mill. D. M. Collins & Co., knit goods, resumed operations. — Planing mill of Zadock November. Patent granted to Cummings C. Chesney and A. Ward destroyed by fire. J. F. Kelley on system of electrical distribution; assigned to Stanley Electric Manufacturing Co. - Pontoosuc Woollen Manufacturing Co. leased mills of Pomeroy Woollen Co. and started up on orders. --- Wilson & Horton reduced wages in specking department of Taconic Mills. December. Stanley Electrical Manufacturing Co. voted to increase capital stock from \$300,000 to \$500,000. - Pontoosuc Woollen Manufacturing Co. made changes in machinery; ran portion of plant of Pomeroy Woollen Co. overtime. -Sisson & Robinson, paper boxes, moved into new quarters. --- Portion of Rel Air woollen mill shut down. -- Lasters at factory of Cheshire Shoe Manufacturing Co. struck: settled.

Plymouth. In January, Safety Seamless Pocket Co. shut down and removed to Lowell. March. New wing added to plant of Plymouth Foundry Co. — Former straw factory secured by Plymouth Garment Co. for establishment of new industry. — Paine & Hersey, shoes, dissolved; business continued by P. I. Hersey. May. Russell Mills, cottons, shut down indefinitely. June. Plymouth Cordage Co. ran nights. — Loring & Parks, tacks, shut down, July. Plymouth Woollen Co. added new machinery and made alterations. — Plymouth Foundry Co. sold plant to new firm; to be operated under name of Plymouth Stove Foundry Co.; started up in August. November. Standish Worsted Co. resumed full time. — Plymouth Woollen Co. started up. December. Russell Mills Co., cotton duck, decided to dispose of plant.

Princeton. In May, Atwood B. Keyes granted patent on wheel rim.

Provincetown. In July, Leominster Shirt Co. discontinued manufacture in branch factory in this place.

QUINCY. In January, Bay State Aluminum Co. began manufacture of kitchen utensils. February. P. Beck granted patent on blind painting machine. — Work begun on new shoe factory for John R. Graham. April. Strike occurred among stone-cutters employed by Craig & Richards Granite Co. June. Employés of Quincy Cycle Co. struck. August. Strike occurred at shoe factory of John R. Graham; settled. September. Strikes occurred among bricklayers and granite cutters. November. Patent granted to R. Stephenson on black leading machine.

Randolph. In February, Richards & Brennan established manufacture of shoes. May. Bradley, Hagney, & Leonard, shoes, shut down temporarily; in September, strike occurred among lasters; settled in November.

Beading. In April, Munroe & Co., shoes, removed business from Salem Depot, N. H., to this place. — Jacob M. Cropley & Bro., shoes, removed to Somersworth, N. H. — Clifford P. Weston, shoes, went out of business. October. Chandler & Urann established manufacture of shoes. December. Edwin A. Vinton of Stoneham, leased quarters for removal of shoe manufacturing business to this place. — Manufacture of leather shoe strings established.

Bevere. In July, Charles H. Kelley granted patent on lasting machine. *November*. Patent granted to Charles Hatch, Jr., on heat insulator.

Bookland. In January, Rice & Hutchins, shoes, ran nights. March. Nathan B. Foster and J. F. Thompson established manufacture of shoe blackings and stains. July. Rockland Co-operative Association established to manufacture shoes; incorporated; capital stock \$1,000. November. French, Shriner, & Urner, shoes, started up. — Hall, Gallagher, & Foulke, shoes, dissolved; succeeded by Lane & Gallagher.

Reckport. In May, laborers employed on street railway struck for increase in wages.

August. Storehouse at factory of Cape Ann Oil Clothes Co., destroyed by fire.

Eewley. In January, Mooney & Richardson, heels, shut down few days for repairs.

— D. N. Prime Shoe Co. shut down indefinitely. June. Burke Heel Co. shut down indefinitely. August. Milton Ellsworth, heels, shut down temporarily. November. S. A. Boynton, heels, resumed after several weeks' shutdown. December. D. N. Prime Shoe Co. placed new boller.

Russell. In August, Fairfield Paper Co. reorganized and business resumed after temporary suspension.

Rutland. In July, Lakeville Woollen Cc. shut down for two weeks' vacation.

SALEM. In January, A. W. Copp Box Co. organized; capital stock \$5,000 .-Nugent Bros., specialty in shoes, moved to Beverly. February. Foundations of new buildings at Adamanta Works completed. --- Naumkeag Steam Cotton Co. started up thirty-eight new revolving top flat cards. - Shoe shop of Thomas F. Hayes damaged by March. Salem Foundry & Machine Co. sold plant and purchased site for new April. James F. Flynn, shoe findings, died. - Strike occurred buildings elsewhere. May. Albert F. Jones granted patent on bark mill. - Work begun among masons. on new building of Salem Foundry & Machine Co.; of wood and brick, 50 x 130 feet, one June. Work begun on new shoe factory for P. A. Field & Co. of Beverly; to be of brick, 174 x 80 x 16 feet, five stories. - George E. Stanley, spring beds, completed new building to be used as factory and wareroom. - Mills No. 8 and 5 of Naumkeag Steam Cotton Co. shut down indefinitely and remaining portion of plant ran on reduced time. --- George F. Putnam, leather, shut down. --- Benjamin Symonds, retired leather manufacturer, died, aged 86 years. July. John J. Cunney & Co., morocco, began addition to factory. - Albert Warren Co., shoes, removed to Beverly. - Factory of John Powers, findings, damaged by fire. August. Benjamin Shreve of Shreve, Crump, & Low, jewelry, Boston, died, aged 83 years. September. Naumkeag Steam Cotton Co. started up 400 looms in No. 5 mill. - John Powers, pioneer manufacturer of shoe findings, died, aged 70 years. - Plant of John J. Cunney & Co., morocco, destroyed by fire. November. Bayard J. Taylor and E. F. Knight established manufacture of fancy articles from hoofs and horns. --- Time reduced at shops of Boston & Maine railroad. December. Lucius B. Packard invented an electrical carriage.

Saugus. In November, A. A. Scott, woollens, resumed operations after four weeks' suspension.

Shelburne. In January, Mayhew & Wilkins, silks, ran nights and installed electric lights. May. Henry A. Axtell granted patent on grinding and finishing machine. June. Peg factory of J. R. Foster shut down for two months.——Mayhew & Wilkins, silks, started up after shutdown. June. Lamson & Goodnow Manufacturing Co., cutlery, made repairs on dam and resumed operations after shutdown; in September, erected storage house.

Shirley. In May, C. A. Edgarton Manufacturing Co., suspenders, shut down portion of plant temporarily and moved into new addition; in June, indefinite shutdown occurred; in August, resumed on reduced time and added machinery. *December*. Shirley Woollen Co. added story to portion of plant.

Semeract. In February, plant of Somerset Stove Foundry Co. destroyed by fire; to be rebuilt. *April*. Work of rebuilding plant of Somerset Stove Foundry Co. begun; 40×200 feet and 50×100 feet; in August, completed and operations resumed.

SOMERVILLE. In May, Joseph Mathison granted patent on machine for attaching buttons and Joseph H. Nason on tension device for shuttles; assigned to H. M. Hewes, Boston. August. John Haigh, proprietor of Middlesex Bleach, Dye, and Print Works, died, aged 64 years. September. Leander D. Junkins granted patent on lasting tool.—J. A. Talpey, inventor of scroll sewing machine and fire escape, died, aged 72 years. October. Plant of Daniel E. Chase & Co., distillers, destroyed by fire. November. Union Glass Co. resumed operations after shutdown of three months.—Following patents granted: To Erastus Woodward on machine for loading heels with nails; to Thomas

H. McQuown on handle bar for bicycles; to James H. Crosby on smoke consuming furnace; to Benjamin F. Smith on driven well system. December. Patent granted to George H. Gregory on apparatus for manufacturing gas. —— Factory of Holland & Daniels, window shades, destroyed by fire.

Southborough. In August, Cordaville Woollen Co. resumed operations after four weeks' shutdown: in December, shut down temporarily.

Southbridge. In January, Hamilton Woollen Co. added new boilers. -- Southbridge Printing Co. increased fire protection system. February. Stephen Richards & Son, cutlery, erected addition to accommodate new boiler. March. Central Mills Co., cottons, placed twelve new spinning frames; in April, reduced wages. April. Hamilton Woollen Co. began running on summer schedule, allowing employés half-holiday on Saturday; in May, shut down for introduction of new work and added machinery. July. Hamilton Woollen Co. shut down portion of plant indefinitely. August. Litchfield Shuttle Co. shut down for one week. October, Hamilton Woollen Co. placed new boilers. — Southbridge Printing Co. ran overtime: in November, made repairs. December. Stephen Richards, tools, changed style to Richards Cutlery and Optical Manufacturing Co.; capital stock \$15,000. — American Optical Co. increased space by raising roof of portion of plant. -- Southbridge Printing Co. ran overtime.

South Hadley. In January, mill of Hampshire Paper Co. started up. March. Cloth room of Glasgow Manufacturing Co., cottons, damaged by fire. April. Carew Manufacturing Co., paper, resumed work after shutdown.——Glasgow Manufacturing Co., cottons, decided to shut down in order to curtail production. May. Carew Manufacturing Co., paper, shut down a few days for repairs to machinery; in June, similar shutdown occurred. August. B. F. Perkins & Son, paper, shut down temporarily to allow new wheel to be placed. September. Lynch Bros., bricks, dissolved; new corporation, Lynch Bros. Brick Co., formed; capital stock \$21,000. December. Hampshire Duck Coat Co. organized to manufacture clothing.

Spencer. In January, Isaac Prouty & Co., shoes, increased working force. cer Woollen Mills started up after several weeks' shutdown. --- Massasoit Knitting Co. started manufacture of underwear. February. Isaac Prouty & Co., shoes, increased force. — E. Jones & Co. and J. E. Bacon & Co., shoes, ran on reduced time. — John Goddard introduced new machine for stamping bottoms of shoes. March. Nip. April. J. E. Bacon & Co., shoes, shut down for muc Paper Box Co. ran overtime. May. Spencer Wire Co. made repairs and improvements. June. Dufton Bros., woollens, erected new picker house. July. Newton Darling purchased plant of Spencer Woollen Mills Co.; in August, started up No. 1 mill and made repairs on mill No. Q. August. John G. Avery invented new style water filter. September. Isaac Prouty & Co., shoes, ran overtime. October. Spencer Woollen Mills Co. started up portion of November. Isaac Prouty & Co., shoes, resumed operations after shutdown for - Bacon & Sibley, shoes, enlarged capacity and began erection of boiler house, repairs. -15 x 60 feet. -- Spencer Woollen Mills Co. ran carding and spinning rooms nights and increased force. - Erastus Jones & Co., shoes, shut down temporarily for repairs and December. Massasoit Knitting Co. resumed operations. - Dufton Bros. woollens, started up mill on satinets. --- Total shipment of shoes for the year 1896 was 136,943 cases; for the year 1895 was 124,822 cases; increase, 12,121 cases, or 9.71 per cent.

SPRINGFIELD. In January, Devine & Hutchinson, trunks, dissolved .man Valve Co. added machinery. February. Buchanan, Bolt, & Co., wire goods, added three new looms. - G. J. Prew and F. T. Labelle established manufacture of bicycles. -Alvin M. Cushing invented spring heels for boots and shoes. — Metallic Drawing March. E. S. Stacy, mill supplies, ran overtime. --- Springfield Roli Co. ran overtime. Foundry Co. and Easthampton Valley Pump Works combined and incorporated under name of The Springfield Elevator and Pump Co.; capital stock \$100,000. --- Women in employ of Bay State Corset Co. struck for increase in pay. April. Plant of Hampden Corundum Wheel Co., emery wheels, damaged by fire and work suspended; to be rebuilt. May. John F. Barker granted patent on signaling apparatus. — Elektron Manufactur. ing Co., machinery, made plans for erection of addition, 40 x 70 feet, three stories. --- Portion of government contract for furnishing envelopes awarded Springfield Envelope Co. - Hampden Corundum Wheel Co. resumed business with reduced force and began work of repairing and rebuilding. - Orrick H. Greenleaf, paper manufacturer, died.

June. National Needle Co. began erection of addition, 81 x 54 feet, three stories. - Plans made for new factory of Bausch & Harris, machinery, of Holyoke; work begun in July. — Holyoke Card and Paper Co. increased capital stock from \$100,000 to \$150,000. — Smith & Wesson, pistols, shut down for inventory. — Indian Orchard Co., cottons, ran on reduced time. July. Eureka Plaster Co. incorporated; capital stock \$20,000; work on factory building begun; of wood, 50 x 70 feet, three stories. - D. B. & R. H. Hawes granted patent on electric lights for cold storage rooms, so arranged that when the door was opened the lights were lit, and when closed, automatically put out. August. Marcus Tremblay granted patent on switch for electric railways that can be operated from the platform of the car. - Highland Brewing Co. made additions to plant. - Wason Manufacturing Co., railroad cars, reduced force. - Agawam Manufacturing Co., knit goods, shut down for annual inventory and repairs. --- Factory of National Photo Paper and Chemical Co. destroyed by fire; work of rebuilding begun. ber. Smith & Wesson, pistols, awarded contract for new office building. --- Hutchins Manufacturing Co. organized to manufacture musical instruments from aluminum. tober. Factory of National Photo Paper and Chemical Co. rebuilt. November. Patenta granted as follows: To Edward N. Richards on truck for railway cars; to John E. Stannard on bicycle pedal clip; to Charles E. Van Norman on milling machine; to Albert C. Newcomb on apparatus for filtering and clarifying liquids; to David F. Graham on underfeed stoker; to Joseph B. Hamilton on magnetic separator; to John D. Browne on rotable sign for street cars; and to James F. Duryea on motor vehicle. December. Wason Manufacturing Co., railroad cars, shipped orders to Brazil. --- Chris. Kuenzel invented chainless bicycle.

Stockbridge. In August, C. E. Callender, paper, shut down for two weeks and resumed; manufacture of tissue paper begun.

Sterling. In May, Washecum Pottery Co. shut down indefinitely.

Stoneham. In March, Thomas J. Quinn received patent on leather graining machine. June. Strike occurred among Italian laborers on sewer. July. Frank Bryant, shoes, decided to retire from business. August. E. W. Noyes, shoes, removed from Haverhill to this place. October. Strike occurred among Italian laborers. November. T. H. Jones, shoes, increased force. December. Edwin A. Vinton, shoes, secured quarters for removal of business to Reading. — T. H. Jones, shoes, reduced force and running time. — Strike occurred at factory of F. B. Jenkins, shoes; settled.

Steughton. In January, J. & H. Fitzpatrick, shoes, shut down for placing of new boller. February. J. Beals, knit goods, decided to shut down permanently. April. Upham Bros. & Co., shoes, ran with reduced force. — Wallace, Elliott, & Co., shoes, shut down and decided to remove business from this place. October. French & Wales, new firm, established the manufacture of shoes; in December, incorporated as Wales-French Shoe Co. — J. & H. Fitzpatrick, shoes, increased output.

Stow. In May, C. W. & A. D. Gleason, woollens, began running on full time; in November, made changes in machinery and installed electric lights.

Sturbridge. In November, Fiskdale Mills, cottons, started up full.

Sutton. In February, Sutton Woollen Co. resumed operations. May. Sutton Manufacturing Co., cottons, shut down indefinitely; repairs to be made. July. Sutton Manufacturing Co., cottons, began repairs at plant preparatory to starting up. --- Manchang Mills, cottons, reduced to three-quarters time. - D. T. Dudley Shuttle Co. shut down for repairs and resumed. August. Sutton Manufacturing Co., cottons, resumed September. David T. Dudley of the D. T. Dudley Shuttle Co., died, aged operations. October. Print cloth works of Sutton Manufacturing Co., cottons, resumed 79 years. operations. - Manchaug Mills, cottons, added new machinery. - Plant of Sutton Woollen Co. destroyed by fire. November. Sutton Manufacturing Co., cottons, started up remaining portions of plant. — D. T. Dudley Shuttle Co. resumed full time. — Shoddy mills of Samuel A. Prescott and Fred S. Smith started up.

Swampscott. In August, boat building establishment of E. Gerry Emmons destroyed by fire. *November*. Patent granted to Elihu Thomson on controlling electric arcs.

TAUNTON. In January, Corr Manufacturing Co., cottons, ordered 1,000 looms for equipment of proposed new mill.——Company organized to manufacture stockings.

February. Contract awarded for mill of Corr Manufacturing Co., cottons: to be 103 x 736 feet, with capacity of 80,000 spindles and 2,000 looms; work begun in March, Mason Machine Works received from Northrup Loom Co. license to build looms with the Draper automatic filling supply device and warp stop motion. — Cohannet Mills, cottons. made alterations in picker room and added machinery. - Factory of White, Warner, & Co., stoves, damaged by fire. May. Reed & Barton, silverware, shut down on account of dull trade. - Taunton Iron Works shut down for two weeks. - Stock of S. A. Dudley, shuttles, damaged by fire, June. Cohannet Mills, cottons, erected picking machinery. - Taunton Iron Works shut down for two weeks. - Nemasket Mills, cottons, increased force; in July, completed repairs on dam. July. Machinery placed in new mill of Corr Manufacturing Co., cottons, --- Reed & Barton, silverware, and Weir Stove Co. resumed operations. — Canoe River Mills, cottons, ran on short time. — D. D. White Shoe Co. discontinued manufacturing. --- Whittenton Manufacturing Co., cottons, reduced running time to three ten-hour days, August. Eagle Mill, cottons, changed September. Poole, Roche, owners. - Foundry of O. G. Thomas resumed operations. & Co., silverware, changed from short to full time. - Mason Machine Works reduced running time on account of lack of orders. November. Taunton Wire Nail Co. ran nights. --- Patent granted to Berthold Huber on printing press and to Winfield S. Huson on mechanical movement for printing presses. December. Corr Manufacturing Co., cottons, started up. --- Taunton Locomotive Manufacturing Co. and Nemasket Mills, cotton yarns, started on full time. - Strike occurred among loom fixers at mills of Whittenton Manufacturing Co., cottons; settled.

Templeton. In January, Winchester Box Manufacturing Co. added new machine. February. Otter River Mills shut down for an indefinite period. May. Plant of Holman & Harris, wooden goods, destroyed by fire; to be rebuilt; in June, business resumed in old shop. October. D. L. Thompson & Son and Smith, Day, & Co., chairs, ran on reduced time. — Holman & Harris, wooden goods, completed new factory, placed machinery, and started up.

Topsfield. In April, W. H. Herrick, shoes, decided to build addition to factory.

Townsend. In June, saw mill of B. & A. D. Fessenden destroyed by fire; in July, rebuilt.

Upton. In June, Nelson & Ladow, straw goods, completed season's work. — William Knowlton & Sons, straw goods, began work on felt. November. Nelson & Ladow, straw goods, resumed full time. — Plant of William Knowlton & Sons, straw goods, damaged by explosion.

Uxbridge. In January, Calumet Mill, woollens, started up on eight-hour time after shutdown of several weeks. February. Scott & Wheelock, woollens, dissolved partnership and shut down. April. Calumet & Hecla Mills, woollens, ran on three-quarters time. — Shoddy mill of D. Morey Lee destroyed by fire. May. Calumet Mill, woollens, closed out stock preparatory to shutting down; in June, shut down. June. A. A. Sprague invented apparatus for dyeing which does not necessitate the removal of goods from the tub. October. Capron Woollen Co. and Hecla Woollen Mill resumed operations. — Scott & Wheelock, woollens, made repairs preparatory to starting up.

Wakefield. In January, Thomas Emerson's Sons, shoes, dissolved; business continued by new firm under same style. — Wakefield Rattan Co. started up after two weeks' shutdown. July. Factory of Rogers & Ferguson, gloves, destroyed by fire. August. Boit Knitting Co. organized for the manufacture of knit goods. December. Wakefield Rattan Co. Increased force.

Wales. In January, Elijah Shaw, retired manufacturer, died, aged 77 years. August. Excelsior Woollen Co. reduced wages; 100 employés affected; strike followed; settled; in December, shut down for one week and placed new engine.

Walpole. In March, works of Walpole Dye and Chemical Co. damaged by fire.

June. Plant of Lewis Batting Co. damaged by fire.

July. S. Gray & Co., bleaching and dyeing, discontinued night work and reduced force.

WALTHAM. In January, new bloycle factory, erected by Thompson & Howe, completed. — Dueber Watch Case Manufacturing Co. and American Waltham Watch Co.

shut down for stock taking and repairs. - J. L. Thompson Manufacturing Co.. buckles. shut down temporarily. February. United States Watch Co. petitioned to Legislature for permission to dissolve corporation. --- High water delayed work at plant of Boston Manufacturing Co., cottons. — American Waltham Watch Co. reduced wages; employés objected to reduction and settlement effected. March. Boston Manufacturing Co., cottons, increased working force by 300, and added new boilers and automatic machinery for dyeing. - American Waltham Watch Co. reduced running time to five days per week. -Strikes occurred among employes of Boston Manufacturing Co., cottons, and American Waltham Watch Co. because of dissatisfaction with wage schedules. April. Plant of Boston Manufacturing Co., cottons, shut down one week for stock taking; in May, reduced running time to four days of ten hours each and shut down hosiery department June. Waltham Bleachery & Dye Works reduced to three-quarters time. American Waltham Watch Co. shut down for annual vacation. --- Charles A. Eddy, retired manufacturer of sashes and blinds, died, aged 73 years. July. Boston Manufacturing Co., cottons, began running mills Nos. 1, 2, and 3 alternate weeks; ran mill No. 4 on 55 hour basis; in August, reduced wages in No. 4 mill and shut down remaining portion of plant. - O'Hara Waltham Dial Co. shut down indefinitely. - American Waltham Watch Co. ran on reduced time; later, shut down. September. Boston Manufacturing Co., cottons, resumed operations on full time. - American Waltham Watch Co. started up on part time after shutdown. --- Laborers employed on water works October. John Stark, watch tools, built addition to factory. --- Waltham struck. Bleachery and Dye Works resumed full time. - Boston Manufacturing Co., cottons, began manufacture of silk linings. - American Waltham Watch Co. increased running time and reduced wages. November. Patent granted to Thomas Curley on door check and to Arthur Sidwell on bicycle frame. — American Waltham Watch Co. increased to full time. December. Boston Manufacturing Co., cottons, started up additional looms.

Ware. In January, George H. Gilbert Woollen Manufacturing Co. added machinery to manufacture worsteds. February. Exection of three-story shoe factory of wood begue. — John Kennedy, inventor of Otis gusset and other knitting machinery, died, aged 46 years. March. Partial shutdown occurred at mills of Otis Co., cottons, on account of duil trade. April. Joseph T. Wood & Co., shoes, removed from West Brookfield to this place. May. Otis Co. demolished stone storehouse in order to erect new one of brick. June. Portion of No. 4 mill of George H. Gilbert Manufacturing Co., woollens, shut down indefinitely. July. Otis Co., reduced wages in hoslery and stockinet departments; 700 employés affected. August. George Eddy of George Eddy Shoe Co., died, aged 69 years. September. Otis Co., resumed full time and reduced wages; later, a strike occurred; in October, plant shut down indefinitely; later, resumed.

Warren. In February, Bradford Yarn Co. of Brookfield, leased cotton warp mill of M. K. Whipple and made repairs; in March, placed new machinery. March. Running time at Warren Cotton Mills reduced to 30 hours per week. —— Sayles & Jenks, woollens, shut down for two weeks on account of dull trade; in April, reduced wages. April. Warren Cotton Mills made improvements in spinning machinery; in July, completed erection of new weave shed, 207 x 440 feet, one story. December. George F. Blake Manufacturing Co., pumping engines, decided to remove entire plant to Cambridge.

Watertown. In March, new shoe factory erected. June. George H. Hood, former president of Boston Bubber Co., purchased land and began erection of rubber factory.— Walker and Pratt Manufacturing Co., stoves, purchased land for erection of new foundry; in July, resumed operations after three weeks' idleness. August. Union Carpet Lining Co. made improvements and increased capacity.— Hollingsworth & Whitney Paper Co. shut down for one month.— Union Bag & Paper Co. shut down for two weeks; in September, resumed. November. Hood Rubber Co. began the manufacture of specialties in rubber. December. Patent granted to William H. Howe on sounding board for planes.

Wayland. In February, F. A. Howe and O. C. Ewing & Co., shoes, started up.—Chas. W. Dean, shoes, after shutdown for stock taking and repairs, resumed on part time.—N. C. Griffin, shoes, ran on short time. *April*. Charles W. Dean, shoes, decided to enlarge plant; in May, purchased at auction factory formerly occupied by Bent Bros. Co., shoes. *June*. William H. Bent of Bent Bros. Co., shoes, died, aged 56 years. *July*. Chessman & Brown, shoes, purchased land and began erection of new factory. *August*.

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N. C. Griffin, shoes, began erection of addition to factory.

September. Chas. W. Dean, shoes, moved into factory formerly occupied by Bent Bros.

December. Strike occurred among lasters at shoe factory of N. C. Griffin.

Webster. In January, John Chase & Sons, woollens, started up on short time after shutdown. February. Josiah E. Perry, woollens, shut down indefinitely; later, started up on reduced time, - Partial shutdown of few days occurred at shoe factory of A. J. Bates & Co. - Plans made and contract awarded for addition to weave shop, 70 x 140 feet, at plant of H. N. Slater Manufacturing Co., cottons. March. Josiah E. Perry, woollens, ran on full time. April. Slater Woollen Co. and H. N. Slater Manufacturing Co., cottons, reduced running time to 30 hours per week. May. H. N. Slater Manufacturing Co., cottons, shut down for repairs. --- Slater Woollen Co. resumed full time. ---Joel Goddard & Co., sashes and blinds, shut down indefinitely. June. A. J. Bates & Co., shoes, shut down a few days for repairs. --- John Chase & Sons, woollens, and box factory of J. D. Putnam & Son ran with reduced force. - Josiah Perry, woollens, shut down for a few weeks; repairs to be made. -- Slater Woollen Co. shut down indefi-July. A. J. Bates & Co., shoes, shut down for repairs and resumed; in August, August. Slater Woollen awarded contract for new addition, 30 x 35 feet, three stories. Co. resumed operations. --- H. N. Slater Manufacturing Co., cottons, began erection of new addition, 100 x 100 feet; shut down for two weeks; damaged by fire. Josiah Perry, woollens, resumed operations after two weeks' shutdown. - John Chase October. Slater Woollen Co. resumed full time. & Sons, woollens, started up in part. November. New addition at shoe factory of A. J. Bates & Co. completed.

Westborough. In January, Reliable Manufacturing Co. organized; building leased and fitted up for manufacture of shirtwaists and cotton underwear; in February, February. Humber & Co., bicycles, increased force and ran manufacture begun. overtime. - Gould & Walker, shoes, increased force. - Hunt Manufacturing Co., bicycle supplies, ran nights. March. Reliable Manufacturing Co., cotton clothing, added new machines and increased force. April. Humber & Co., bicycles, ran nights. -Hunt Manufacturing Co., bicycle supplies, decided to enlarge plant. ---- Ariston Cycle Co. and Reliable Manufacturing Co., clothing, ran overtime. May. Hunt Manufacturing Co., blcycle supplies, built new addition; in June, discontinued night work. June. New company organized to manufacture brass and iron bedsteads. T. W. Hines & Co., straw goods, closed New York factory and removed machinery and stock to this place. August. Hunt Manufacturing Co., bicycle supplies, added new September. F. V. Bartlett & Co., boxes, built addition. October. Humber & Co., bicycles, began erection of new addition, 40 x 90 feet, two stories. — Reliable Manufacturing Co., clothing, secured quarters in Worcester and began removal of business to that place. November. Cycle Improvement Co. ran overtime. Hunt Manufacturing Co., bicycle supplies, increased force. --- Lasting room at shoe factory of Gould & Walker ran nights.

West Boylston. In January, West Boylston Manufacturing Co., cottons, damaged by fire. February. Metropolitan Water Board made plans for reservoir which included site of plant of West Boylston Manufacturing Co. May. William B. Fitz granted patent on loom temple. June. West Boylston Manufacturing Co. sold plant to Metropolitan Water Board and shut down permanently. — L. M. Harris Manufacturing Co., cottons, began running on summer schedule, giving employés half holiday on Saturday. July. Clarendon Mills, cottons, shut down temporarily on account of accident. — Shoe factory of Howe, Morton, & Lovell secured by Metropolitan Water Board. August. Clarendon Mills, cottons, shut down; in September, resumed.

West Bridgewater. In May, Charles E. Tisdale & Co., shoes, introduced lasting machines; in October, increased space. December. Edward Tisdale of firm of Charles E. Tisdale & Co., shoes, died in Brockton, aged 74 years.

West Brookfield. In February, accident to engine caused temporary suspension at shoe factories of J. T. Wood & Co. and McIntosh & Co. April. Joseph T. Wood & Co., shoes, removed business to Ware. May. Cutters at factory of McIntosh & Co. resumed work; in July, temporary shutdown occurred. October. Tyler-Moulton shoe factory removed from Brookfield to this place. — Quarters secured for ostablishment of mattress factory. November. C. L. Olmstand, corsets, started up on full time.

Westfield. In February, Westfield Brick Co. doubled capacity.— J. W. Foster granted patent on thread-winding or spooling machine. — Employés of Textile Manufacturing Co., coffin trimmings, struck because of reduction; settled by compromise. March. Pomeroy & Van Duesen, whips, shut down temporarily on account of high water. April. Belden & Hoffman, new firm, purchased business of J. W. Loomis and established manufacture of cigars. June. Col. J. A. Lakin invented instrument which enables deaf persons to hear; to be known as the compound micro audiphone; arrangements made for its manufacture. — Stock subscribed for establishment of plant of Lozier Bicycle Co. of Toledo, Ohio, in this place. — Girls employed in plating room of Crane Bros.' paper mill struck; settled. August. H. B. Smith, steam heating apparatus, reduced force. November. Crane Bros., paper, completed erection of new boiler house, 33 x 40 feet, with smoke stack 133 feet high.

Westford. In August, Abbott & Co., woollens, started up on reduced time after shutdown; in November, increased to full time.

Westminster. In March, Battles & Goodridge, lumber, started up.

West Newbury. In January, few days' shutdown for repairs occurred at comb factory of S. C. Noyes & Co. — W. B. Chaplin, shoes, increased force. May. S. C. Noyes & Co., combs, shut down temporarily. June. W. B. Chaplin, shoes, shut down indefinitely. — S. C. Noyes & Co., combs, shut down few days for repairs. September. W. B. Chaplin, shoes, ran on part time. October. S. C. Noyes & Co., combs, suspended operations for one week. November. W. B. Chaplin, shoes, resumed full force.

Westport. In December, Westport Manufacturing Co., carpet yarns, installed automatic fire extinguishing system.

West Springfield. In April, Mittineague Paper Co. added story to stock house and made improvements. May. Agawam Paper Co. made improvements and adopted new time schedule, reducing working time. July. Agawam Paper Co. resumed operations after three weeks' shutdown for repairs. — Mittineague Paper Co. shut down for one week. August. Southworth Co., paper, resumed operations after three weeks' shutdown for repairs. — Worthy Paper Co. shut down for ten days. September. Running time reduced at repair shops of Boston & Albany Rallroad.

Weymouth. In March, M. C. Dizer & Co., shoes, increased output. — Shop of L. V. Tirrell, shoe strings, secured by Leather Novelty Co.; in April, manufacture of small articles in leather begun. April. John E. Mann, wool scourer, made improvements in machinery. May. Hand-sewers employed at shoe factory of Edwin Clapp struck for increase in wages; settled. July. Stitchers at shoe factory of H. B. Reed & Co. struck on account of dissatisfaction with new price list; settled in August. September. South Weymouth Shoe Lace Co. formed. November. T. John Evans, Thomas Slattery, and L. Winthrop Bates formed partnership and leased factory for the manufacture of shoes. — George E. Porter, shoe manufacturer, died, aged 69 years. December. T. J. Evans & Co. established manufacture of shoes. — Atherton Tilton purchased business of George E. Porter.

Whitmam. In January, Commonwealth Shoe & Leather Co. increased force.—Smith & Stoughton Corporation, shoes, shut down indefinitely; in February, started up to complete work on hand. February. Business revived at tack factory of Dunbar, Hobart, & Co. March. W. E. Trufant of Trufant & Howard, tacks, purchased factory for establishment of new plant. May. Accident to machinery at plant of Commonwealth Shoe & Leather Co. caused temporary shutdown.—Dunbar, Hobart, & Co., tacks, reduced force. July. Factory of Smith & Stoughton Corporation, shoes, sold. October. Commonwealth Shoe & Leather Co. shut down for stock taking. December. Bliss & Co., shoes, removed from Goffstown, N. H., to this place.

Williamsburg. In February, Haydenville Manufacturing Co., brass goods, shut down for inventory and repairs. July. Henry L. James, woollen manufacturer, died, aged 67 years.

williamstown. In March, Williamstown Manufacturing Co., cottons, purchased site for storehouse.

April. Williamstown Manufacturing Co., cottons, began erection August. Boston Finishing Co. shut down.

Winchendon. In March, Joel Sibley removed woodworking machinery from this place to Gardner. June. Toy and rattan factory of Morton E. Converse & Son destroyed by fire: in October, ran overtime.

Winchester. In January, Stephen Dow & Co. purchased and started up Shaw leather factory. February. John N. Merrill of Merrill Piano Co., died, aged 36 years. May. Stephen Dow & Co., tanners, transferred business from John Maxwell tannery in this place to new tannery in Woburn. — American Heeling Co. of Brockton, purchased site for erection of plant in this town. Avoember. Patent granted Arthur E. Whitney on hide working cylinder. — Whitney Machinery Co. made improvements in plant. December. Napoleon and G. Goddu received patent on sewing machine.

WOBURN. In February, J. T. Freeman & Co., machinists, introduced new iron March. Rendering works of John Reardon & Sons, soap manufacturers of Cambridge, destroyed by fire. April. G. & E. G. Place & Co., tanners, succeeded by F. W. Perry & Co. - Strike occurred among employés of Wantanga Tanning Co. and shutdown occurred in consequence; 100 persons affected; settled. May. Business of Stephen Dow & Co., tanners, transferred from Winchester to this place. July. Russell Counter Co. set up machine for cementing capable of doing work formerly done by twenty girls. - James Skinner & Co., leather, reduced force. - E. C. Cottle & Son, leather, shut down temporarily and Beggs & Cobb, leather, shut down indefinitely. Timothy F. Hagerty invented device for calling attention to special delivery letters when mailed. - Patent granted to Frank W. Graves on regulating damper for controlling incoming currents of air and to Edward B. Parkhurst on gearing for elevators. --- James Skinner & Co. and C. G. Lund & Co. consolidated as James Skinner Leather Co. - E. C. Cottle & Son, leather, added blacking machine and built addition. -- Beggs & Cobb and Stephen Dow & Co., leather, built additions. - Carriage factory of Pollard & Grothe destroyed by fire. December. John P. Crane & Co., leather, shut down indefinitely.

WORCESTEB. In January, Globe Corset Co. made additions to plant. --- Manufacture of specialty in shipping tags established .--- Fowler & Co. made arrangements to manufacture adjustable mailing wrapper. - Factory of Peter Wood Dyeing Co. completed; main building of brick, 50 x 100 feet, two stories. - Peter P. Bradt, patent medicine manufacturer, died, aged 42 years. - Picker room at Hubley Woollen Mill damaged February. Holcomb, Stearns, & Co. established manufacture of artificial flowers. --- Clarendon & Kittredge established manufacture of counters under name of Bay State Counter Co. — Porter & Gardiner, lasts, dissolved; business continued by S. Porter & Co. - Plans made for erection of machine shop by L. Robbins, 40 x 125 feet, two stories. - A. E. Barlow granted patent on cop-holder for wire netting machines. - Anthony Bates Machine Co. organized to manufacture machines, tools, and implements; capital stock \$20,000. - Jamesville Manufacturing Co., wooliens, ran on reduced time. Employés of Walker Ice Co. struck for increase; settled. March. Windle Cycle Co. shut down indefinitely. --- G. F. Hutchins granted patent on take-up attachment for looms; Gilbert C. Bemis on pneumatic last; and H. K. Gardiner on machine for trimming ends of shoe lasts. --- Crompton Loom Works produced new style loom for weaving lappet cloths, to be known as "Improved Lappet Loom." --- George L. and William P. Allen granted patent on new form of bleaching keir for use in paper manufacture. - C. M. Fowler invented a sash lock for windows which allows a window to be opened from one to six inches and securely locked; arrangements made for its manufacture. — Business of Peter Baker incorporated as Baker Lead Manufacturing Co.; capital stock \$35,000. — Southgate Woollen Co. made improvements in machinery. — Plans made and contract awarded for new factory building of Norton Emery Wheel Co.; of brick and steel conatruction, 83 x 233 feet, three stories. --- Plans made by Milton P. Higgins of Washburn Shops, for new factory, 104 x 117 feet, two stories. --- C. S. Goddard & Sons, shoes, started up on full time. - Andrew J. Hiscox, proprietor of file works destroyed by fire, leased quarters for re-establishment of business. --- Hatch & Barnes, builders' finish, mouldings, etc., leased additional floor space. - David Gessner secured quarters and began manufacture of specialties in woollen machinery, inventions of himself and father. Marcus Mason & Co. of New York, coffee harvesting machinery, established manufacture in this place. - New factory buildings of Morgan Spring Co. completed and setting up of machinery begun; main building, 100 x 150 feet, two stories. April. Work began on new factory of Wilbur Metal Sign Co.; of wood, two stories, 85 x 70 feet. - New firm,

McKenzie-Howard Co., established manufacture of shoes: machinery formerly used by Wetherell Shoe Co. of Clinton, secured. - Southgate & Co., shoe findings, succeeded by H. A. Tenney. — A new corporation, Baldwin Adjustable Cycle Chain Co., organized and manufacture of adjustable chains established the invention of E. A. Baldwin of Upton; plant of L. L. Pollard purchased and new machinery added. --- Plant of Decker Cycle Co. sold to W. H. Sawyer. --- Work on new factory of Norton Emery Wheel Co. begun. - John F. O'Hara of Eureka Manufacturing Co., overgaiters, formerly of J. F. O'Hara & Co., shoes, Lynn, died, aged 31 years. — Quinsigamond works of Washburn & Moen Manufacturing Co., wire, destroyed by fire; work of re-building, with addition of May. Houghton & Buxton Manufacturing Co. incorporated to 148 x 234 feet, begun. manufacture fittings for bicycles and metal specialties. - Logan, Swift, & Brigham Envelope Co. decided to make addition to factory, 45 x 80 feet, three stories. - Crompton Loom Works purchased additional land. - Curtis & Marble Machine Co. purchased land for erection of addition to plant, 64 x 230 feet, three stories. - William R. Albertson, shoe manufacturers' blacking, moved into new factory; of brick, 40 x 70 feet, two stories. -Patents granted as follows: G. F. Hutchins, on reversing mechanism for looms; John F. McCartney, on washout water closet range or latrine; John W. Smith, on governor valve: Louis W. Southgate, on apparatus for handling offset webs: Johan O. E. Trotz, on apparatus for casting ingots; and John D. Warren, on canony shades for chimneys. - Wheelock Engine Co. decided to erect addition to plant, 24 x 100 feet, one story. -Washburn & Moen Manufacturing Co., wire, voted to increase capital stock from \$3,500,000 to \$4,009,000. --- Windle Cycle Co. decided to remove plant to Keene, N. H. -Jonathan Munyan, president of Goodyear Shoe Machinery Co., died, aged 73 years. -Female stitchers at shoe factory of E. H. Stark & Co. struck for increase; settled. Brewster Cycle Co. organized to manufacture bicycles: capital stock \$500,000. --- Worcester Brewing Co. incorporated; contract let for erection of brewery. --- David McTaggart, inventor of a warp compressing machine, invented a yarn spooling machine with compressing attachment. - Draper Machine Tool Co. made plans for erection of addition, 54 x 68 feet, three stories. - Mills of Lakeside Manufacturing Co., woollens, shut down permanently because of loss of water privilege. July. Plunger Elevator Co. incorporated; capital stock \$28,000. - Henry S. Bacon granted patent on shoe stretcher. - H. M. Witter & Co., cottons, built two-story wooden addition. -E. Reed Co., machinery, made plans for addition to machine shop, 40 x 194 feet. -Whittall & Thomas, carpet yarns, shut down temporarily on account of accident to August. Wheelock machinery. --- Aurin Wood, inventor, died, aged 84 years. Engine Co. added new machinery. - Work resumed on new factory building of Norton Emery Wheel Co. --- Rogers & Young Co. formed to manufacture confectionery: plans made for erection of new building, 70 x 130 feet, three stories. --- Plunger Elevator Co. began manufacturing. - Harrington & Richardson Arms Co. shut down for vacation and repairs. --- Albert L. Gilman, carriage and wagon manufacturer, died, aged 48 years. - Factories of Decker Cycle Co. and S. Porter & Co., lasts, damaged by September. Draper Machine Tool Co. started up on full time after shutdown of fire. four weeks. - Loring Coes & Co., machine knives, ran overtime. - Robert Ruddy, president of Ruddy Thread Co., died. - Charles Baker of Charles Baker Co., doors, sashes, etc., died, aged 68 years. - Cotton underwear factory of William H. Burns Co. destroyed by fire; rebuilt. October. Crompton Loom Works received order from Mexico. — Mawhinney Last Co. secured quarters in Brockton for removal of business to that place. ---- Reliable Manufacturing Co., cotton underwear, removed from Westborough to this place. - Cotton underwear factory of William H. Burns Co. resumed opera- Plant of Windle Bicycle Co. sold to Frank T. Fowler of Chicago, and started up to manufacture bicycles. --- Charles F. Green, manufacturer of artificial stone, died, November. Thomas F. Hickey invented wool-dabbing appliance for combing machines. - Patents issued as follows: To Brown & Simpson Co., on automatic piano; to William H. Redding, on doup heddle for leno weaving; to George H. Scott, on electric rail bond; to William L. Decker, on crank and pedal; to John F. Adams, on chin rest for dental operating chairs; to David Keitcher and C. Weinstein, on combination tooi for pipe fitters; to Albert M. Powell, on feed operator and feed stop for metal planing machines; to Henry D. Perky, on machine for reducing and preparing cereals for food; to George W. Bemis, on drum; to Merrill E. Clark, on burnishing machine and machine for finishing stock; and to Joseph P. Doray, on window frame. - Knowles Loom Works increased force and running time. — F. A. Lapham of Millbury, secured mill in this place for manufacture of cassimeres. — Erection of addition begun at bleycle manufact. uring plant of F. T. Fowler; 18 x 44 feet, two stories. - W. C. Young Manufacturing Co.,

machinery, increased space. --- Crompton Loom Works increased force and running time. - Washburn & Moen Manufacturing Co., wire, increased running time. - Powell Planer Co. added new planer built from plane modeled by A. M. Powell, president of company. --- Oliver K. Cook, formerly pump manufacturer, died, aged 80 years. --- Osgood Bradley of Osgood Bradley & Sons, car manufacturers, died, aged 59 years. occurred among plumbers. December. Patent granted to William Downey on apparatus for tapping pipes or mains. --- Samuel Winslow Skate Manufacturing Co. received permit to build addition of brick and stone, 24 x 45 feet, four stories. - Logan, Swift, & Brigham Envelope Co. made plans for new addition, 44 x 70 feet, five stories. --- Bemis & Fletcher, manufacturing under name of Waverly Shoe Co., dissolved; business continued by Gilbert C. Bemis under same style. - F. A. Lapham started up Jamesville Woollen -Thomas Williams, woollens, erected new storehouse, 30 x 60 feet. -Corset Co. installed electric lighting plant. --- Mawhinney Last Co. removed to Brockton. - Frank T. Fowler Cycle Co. incorporated under laws of New Hampshire; capital stock \$100,000; decided to remove to Keene, N. H. - E. F. Rice, formerly president of Rice & Griffin Manufacturing Co., building material, died, aged 57 years. - A. W. Wilcox, inventor of Wilcox organ coupler, died, aged 70 years.

Worthington. In July, A. Stevens & Sons, wooden goods, erected new dam.

Wrentham. In July, Plainville Stock Co., jewelry, shut down; resumed in August.

THE STATE. Returns are made from 196 cities and towns in the foregoing Chronology, as against returns made from 199 cities and towns in 1895. In the following table is presented a summary of the facts shown in the preceding pages placed in comparison with the items contained in the Industrial Chronology for 1895:

' CLASSIFICATION OF CHANGES, SUSPENSIONS, FIRES, E	Number of Establishments Re- Porting Specified Changks, Suspensions Fires, etc.				
				1895	1896
Firms, establishments, and industries new to towns, .		127	140		
Buildings constructed during the year,				181	83
Machinery added to plants,				211	159
Other additions to plants,				205	76
Addition of new class of product to manufacture, .				14	11
New industrial corporations organized,				67	41
Amount of capital stock of new industrial corporations,				\$8,992,900	\$7,865,000
Rebuilding of burned factories, etc.,				14	14
Removals to larger quarters,			.	45	14
Resumption of business after protracted shutdowns, .	•			65	10
Use of important new inventions,	•			4	9
Changes from private firms to corporations,				1	12
Changes in firms, firm names, etc.,				94	64
Changes in character of product,		•	• ;	6	12
Changes in character of machinery,			.	1	4
Changes from hand to machine lasting in Boots and Shoes,			.	1	0
Consolidation of firms and corporations,			• ;	-	9
Increases in capital stock,				12	6
Decreases in capital stock,		•		2	-
Removals of firms and industries to Massachusetts from oth	er S	tate	s,	6	13
Removals of firms and industries from Massachusetts to oth	er 8	tate	8,	14	7
Removals from one town to another in Massachusetts,			•	87	44
Increase in number of employés,		•		88	36
Reduction in number of employés,			.	9 '	53
Increase in rate of wages paid,			.	91	1

CLASSIFICATION OF CHANGES, SUSPENSIONS,	Number of Establishments Re- Porting Sprcified Changes, Suspensions Fires, etc.						
	1895	1896					
Reduction in rate of wages paid,	•	22	46				
Increase in hours of labor per day or week,						16	40
Reduction in hours of labor per day or week,						20	138
Running overtime and nights on account of rush o	f or	der	8,		.	91	63
Introduction of electric lighting and power into fac	ctor	les,	etc.,			13	11
Suspensions for vacations,						16	20
Suspensions for stock taking,						21	81
Suspensions indefinite as to duration,						20	101
Suspensions for curtailment of production,						-	109
Suspensions on account of dull trade,						6	49
Suspensions on account of low water,						8	2
Suspensions on account of high water,						8	68
Suspensions on account of strikes and lockouts, .						10	2
Suspensions on account of accidents to machinery,	,					24	15
Suspensions for repairs and improvements,						70	98
Suspensions (cause not given),						46	123
Retirement from business (no successors),						4	17
Dissolution of private firms and corporations, .						. 23	40
Auction sales of industries or plants,			. •			4	8
Sales of plants in whole or in part,						53	55
Sales of plants to syndicates or trusts,						-	1
Fires during the year,						180	169
Plants damaged by explosions,						8	2
Deaths of manufacturers,						123	119

The character of the information contained in the above table is sufficiently explained by its contents and no extended mention is necessary. We must, however, caution the reader against assuming that every occurrence of an industrial nature has been tabulated in the foregoing Chronology, although it is believed that every occurrence of any importance has been chronicled. Our facilities will not allow us to verify each statement made or printed, and while great care has been exercised, it is quite possible that a few errors may have crept in, yet not sufficient to alter the influence and value of the reports made.

In the following table is shown, by months, the number of suspensions as recorded in the preceding table, for the year 1896:

				Causes of Suspensions										
1	(on	THS.		Vaca- tions; Stock Taking	Indefi- nite; Not Given	Ac- cidents; Low Water; High Water	and	Curtail- ment; Dull Trade	Retire- ment; Dissolu- tions	Strikes	Totals			
January,				2	15	1	7	1	9	_	85			
February,				2	9	4	1	3	5	-	24			
March,				1	5	66	6	4	2	1	85			
April, .				4	11	8	8	7	5	-	88			

				CAUSES OF SUSPENSIONS										
Монтия.				Vaca- tions; Stock Taking	Indefi- nite; Not Given	nite; Low Not Water;		Curtail- ment; Dull Trade	Retire- ment; Dissolu- tions	Strikes	TOTALS			
Мау, .				8	16	7	7	5	6	-	44			
June, .				6	39	1	12	5	7	1	71			
July, .				18	48	1	15	46	8	-	136			
August,				9	38	-	23	49	2	-	121			
Septembe	r,			-	10	1	5	33	8	-	52			
October,				1	12	1	9	4	2	-	29			
Novembe	r,			3	10	-	4	-	4	-	21			
December	r, .			2	11	-	1	1	4	-	19			
Тота	LS,			51	224	85	98	158	57	2	675			

Condensations have been made in the first, second, third, fifth, and sixth columns in the preceding table. In the first column, suspensions for vacations have been combined with those for stock taking; vacations occurred as follows: June, 1; July, 13; August, 5; and December, 1. In the second column we have combined those reported as "indefinite as to duration," with those for which the cause of suspension is not given: the former occurred as follows: January, 9: February, 7: March, 8: April, 6: May, 6: June, 21: July, 17; August, 17; September, 2; October, 6; November, 4; and Decem-Suspensions for which no cause was given numbered 123, due, undoubtedly, to the general depression in business. In the third column, the causes of suspension are combined as follows: Accidents to machinery-January, 1; February, 3; April, 2; May, 7; June, 1; and July, 1; low water - September, 1; and October, 1; high water - February, 1; March, 66; and April, 1. In the fifth column are combined those instances of suspension for curtailment of production and on account of dull trade; the former were reported as follows: April, 2; May, 1; July, 38; August, 39; and September, 29. Suspensions on account of retirement from business and the dissolution of private firms or corporations have been consolidated in the sixth column; the former occurred as follows: January, 1; April, 2; May 1; June, 4; July, 4; August, 2; September, 2; and November, 1.

The 169 fires reported as having occurred during the year 1896 were distributed through the following months; comparative figures for 180 fires, in 1895, are also given.

				NUMBER	of Fires					Number	OF FIRE
	ion	гнв.		1895	1896	M	ONT	нв.		1895	1594
January,				27	13	July, .				11	16
February,				10	18	August,				8	16
March, .				18	19	September	۲,			12	7
April,				15	18	October,				15	8
Мау, .				25	19	November	,			18	16
June, .				12	9	December				14	10

TWELFTH ANNUAL REPORT

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THE BOARD

01

GAS AND ELECTRIC LIGHT COMMISSIONERS

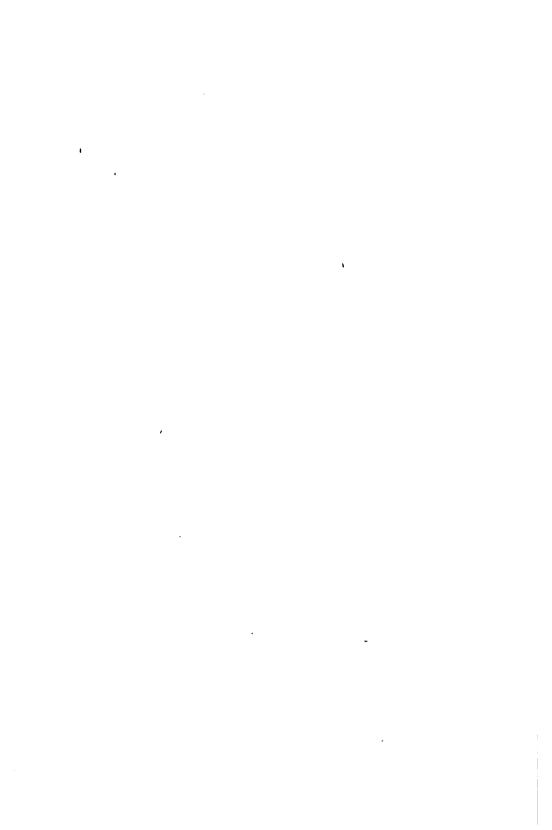
OF THE

Commonwealth of Massachusetts.

JANUARY, 1897.

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Commonwealth of Massachusetts.

The Board of Gas and Electric Light Commissioners respectfully submits its twelfth annual report.

There are now under the supervision of the Board 133 companies, 12 towns and 1 city. Of the former, 47 are engaged in the supply of gas only, 24 in the supply of both gas and electric light, and 62 supply only electric light. Of the towns, 2 have plants for the supply of gas and electric light; the others supply only electric light.

The following list gives the corporate names of the companies chartered during the year 1896 with gas or electric lighting powers, with the amount of capital and the locations stated in the several charters:—

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The Blackstone Electric Light Company, . . . $10,000 Blackstone. Weston Electric Light Company, . . . . 7,000 Weston. Whitman Light and Power Company . . . . . . . . . . . . 25,000 Whitman. People's Gas and Electric Company of Stoneham, Chicopee Gas Light Company, . . . . . . . . . . . . 100,000 Chicopee.
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The amount of stock approved by the Board to be actually issued in the cases of the first three named may be found by reference to the later pages of the report, under the title of "Approval of stock and bonds." The applications of the last two for leave to issue stock were not filed until very near the close of the year, and have not yet been decided.

The plant of the Blackstone Electric Light Company, which was started by the contractors in December, 1895, was delivered to the company on Jan. 1, 1896, by whom it has since been operated.

The Chicopee Manufacturing Company began to distribute and sell water gas in Chicopee Falls in January, the Malden

and Melrose Gas Light Company throughout the territory which it supplies in October, and the Holyoke Water Power Company in Holyoke in July. This gas, either alone or in combination with coal gas, is now distributed by companies in Adams, Amesbury, Athol, Boston (city proper, Brighton, Charlestown, Dorchester, Roxbury and South Boston districts), Brookline, Chicopee Centre, Chicopee Falls, Cottage City, Fall River, Framingham, Haverhill, Holyoke, Lawrence, Lowell, Lynn, New Bedford, Pittsfield, Spencer, Springfield, Stoneham, Waltham and Worcester, and by the Malden and Melrose Gas Light Company throughout its territory in Malden, Melrose, Medford and Everett.

The Weston Electric Light Company of Weston commenced business in April.

The Block Plant Electric Light Company began to supply lights in January. The business of this company is confined to the block bounded by Washington, Bromfield, Province and School streets in the city of Boston. It has acquired no rights to lay or maintain wires in, over or under any of the public streets.

An abstract of the manufacturing account in the return of the Church Green Electric Light and Power Company appears in the Appendix of this report for the first time. This "company" is not a corporation, but the name given is that under which Mr. Alonzo W. Perry conducts the electric lighting portion of his business in the city of Boston. The supply of lights was originally confined to his lessees, but has since been extended to other customers within a restricted area.

The property of the Whitman Electric Company was sold under foreclosure of mortgage in May and was purchased in the interest of the bondholders, whose representatives, having organized as the Whitman Light and Power Company, took possession of the property and began to supply light in the name of that corporation in November.

The Chicopee Gas Company took possession of the Chicopee Gas Works in January, and has operated them during the year.

A receiver was appointed for the Citizens' Gas Light Company of Reading, South Reading and Stoneham, who took possession of the company's plant in October. Late in November the property in the receiver's hands was sold at public auction, subject to all incumbrances, to citizens of Stoneham, who have since operated the plant, although the sale has not yet been confirmed by the court. These purchasers have become incorporated as the People's Gas and Electric Company of Stoneham.

Pursuant to the authority given by chapter 143 of the Acts of 1896, and after the approval by this Board of an issue of new capital stock, the Fall River Electric Light Company purchased all the property, rights, licenses, privileges and franchises of the Edison Electric Illuminating Company of Fall River, and took possession of the same on the first day of July. The Edison Electric Illuminating Company of Fall River was organized in 1883, and since that time has supplied only commercial incandescent lights in the city of Fall River, doing no street lighting and supplying no commercial arc lights.

The Fall River Gas Works Company, acting under the general laws, and after the approval of new capital stock for the purpose, has purchased and taken possession of the plant and property of the Manufacturers' Gas Light Company of Fall River. The Manufacturers' Company was originally organized and incorporated in 1867 as the Manufacturers' Gas Company. The stock at that time was nearly all held by certain mill companies in Fall River, and its chief purpose was to supply these mills and to light the streets in the vicinity of the same. The Fall River Gas Works Company did not then light this district, and was unwilling to extend its mains for the purpose. In 1880. owing to the defalcation of its treasurer, the company was reorganized as the Manufacturers' Gas Light Company. The growth of the city and the increase of the business of the two companies made a small portion of the city common territory for both. No attempt was made to convey the franchises of the Manufacturers' Company, and none was considered necessary, as the Fall River Gas Works Company had already authority to lay mains and supply gas through the entire city, so that no legislation was necessary to effect a consolidation of the companies. The stock of the Manufacturers' Company has been transferred to trustees for the purchaser, whose intention, we are assured, is to dissolve the corporation.

NEW LEGISLATION.

In the year 1894 an appeal was made to the Board for a reduction in the price of gas supplied by the Arlington Gas Light Company. Although the company was then and is now charging \$2.50 per thousand, the Board found itself unable to reduce the price, principally because, owing to the large area of the district supplied and its small output. there was no reason to expect that the company could pay a reasonable profit at a lower rate. This is the only company supplying gas in the towns of Winchester, Arlington and Belmont. Adjacent to this territory is on one side that of the Woburn Gas Light Company, which supplies gas at \$1.60, and on the other side the Cambridge Gas Light Company, which supplies gas at \$1.25. The Board, recognizing the advantages which would come to the residents in the territory of the Arlington Company if they could be supplied directly or indirectly by either of the other two concerns, encouraged negotiations between them and the Arlington Company for some arrangement which might prove of advantage to all interested. These negotiations were continued for a considerable time, but no agreement was reached and they have since been abandoned. Board has no power, under existing laws, to effect such an agreement or to procure any satisfactory change in the present method of supplying the residents of the three towns named. We recommend the passage of some legislation which, through its application to some or all of the companies named, may secure such result.

ACCOUNTS.

The special report of this Board to the Senate of 1895, in response to an order of inquiry concerning the accounts of the Brookline Gas Light Company, was given in the Appendix of the eleventh annual report. Later in that year the company requested the Board "to so revise and amend the rules and instructions relating to books and accounts of

gas companies issued in 1886 . . , as to authorize gas companies to charge to the appropriate construction or plant accounts such items of law expenses, interest, insurance, meter sales, advertising, canvassing, etc., as are incident to new construction work, and which can be properly separated from running expenses, until that part of the plant for which such money is expended is put into actual use; "and, further, "to reconsider its findings of April 16, 1895, as contained in the report of that date to the Massachusetts Senate, and see if certain errors were not made therein, and if it finds that such errors have been made, to correct the same, and if certain of those items should not be transferred from expense into plant or construction accounts." The reply to this request was made during the year just closed, after a thorough examination not only of the company's accounts, but of so much of its contracts, correspondence and records as seemed to relate in any way to the subject matter of the report referred to. As this reply not only has an important relation to the report already published, but contains certain rulings respecting accounts, applicable to the companies generally, it is inserted in Appendix B.

COMPULSORY SUPPLY.

Nearly all of the complaints resulting from the neglect or refusal of the companies to supply either gas or electric light during the year have been satisfactorily adjusted, with the assistance of the Board, but without a hearing or formal order.

Dorchester and Hudson Petitions.

A formal hearing was given, upon the complaint of Charles F. Berry and others against the Dorchester Gas Light Company, to secure new mains in Norfolk and adjacent streets. This application was made near the close of the season suitable for main laying, and at the hearing, upon the assurance of the company that the supply asked for would be given at an early date next season, and by an agreement of the parties interested, the case was continued until that time.

Petitions for the supply of electric light were brought against the Hudson Electric Light Company by the selectmen of Hudson, the Hudson Savings Bank and Doric Lodge

of Hudson. These cases were heard and decided together. When these petitions were brought, a suit of the company against the town was pending in the supreme judicial court. to compel the town to take the company's plant, under chapter 370 of the Acts of 1891, known as the "municipal ownership act." The existence of this suit and its probable result was urged by the company as an objection to an order requiring it to supply. Very soon after the hearings the suit was decided in favor of the company. From the testimony submitted, and an examination of the plant, it was apparent that to increase the installation of incandescent lamps in response to these petitions and others likely to follow with equally reasonable requests would either require a substantial addition to the plant at the station for which new expenditure would be necessary, or would be liable to seriously impair the service of the company to its existing customers. The requests involved in the petitions seemed entirely reasonable, and, if the company had intended to continue in business, the Board would have undoubtedly required that they be granted. In view, however, of the near approach of the time when the town was to assume possession of the company's plant and business, it seemed neither reasonable nor just to the company or the town to compel such new construction and additional investment at that time. town were not compellable to reimburse the company therefor, it was obviously unjust to the corporation; and if the town were compellable to take the additional property and pay for it, it might then find it impossible to use such new construction to advantage, after taking possession of the entire plant. When, therefore, the suit of the company had made such progress in the courts that it seemed certain that the town must take the plant, the Board could not see its way clear to require the investment necessary to comply with the request of the petitioners, and voted to dismiss the petition.

QUINCY PETITION.

The mayor of the city of Quincy brought a petition and complaint against the Quincy Electric Light and Power Company concerning the price and quality of the electric street lights, and an order for a hearing upon the same was issued. Pending this hearing, a contract between the city and the company was agreed upon and the petition was withdrawn.

MALDEN AND MELROSE PETITION.

This was a petition by the consumers of the Malden and Melrose Gas Light Company for a reduction in price of gas.

A public hearing was given in Malden, at which the petitioners and the company were represented by counsel. Although the city of Malden is not a customer of the company, the city solicitor, pursuant to a vote of the city council, was heard in its behalf and in favor of the petition.

In addition to a careful consideration of the facts submitted at the hearing, and in response to the request of the petitioners, the Board has made a thorough examination of the affairs of the corporation, its history, methods, present condition and immediate necessities.

The company began operations in 1854. It has never watered its stock, and, although nearly a third of its present capital has been issued at a price much above par, it has rarely exceeded a six per cent. dividend, all other profits having been applied to the maintenance and development of the plant. It is now carrying a considerable debt, the proceeds of which have all been applied in the same direction. It is situated in a rapidly growing territory, with a mileage of mains exceptionally large for its output and the number of its consumers. While this extent of pipe is a substantial advantage to the community, and seems to be no greater than the public convenience demands, it nevertheless sustains such an abnormal relation to the output as to materially increase the cost of supplying its gas. A study of the plant and its operation reveals the necessity for an immediste large expenditure for extraordinary repairs and extensions, some of which have been already too long delayed. The interests of the community imperatively demand that these alterations and extensions be promptly undertaken, and the investigation of this case has forcibly impressed this fact upon the management. While the new extensions demanded may properly require the aid of new capital, the

alterations, so far as in the nature of repairs, although extraordinary in character, are a legitimate and necessary charge upon income, and in most successful companies provision for this is made by a regular annual appropriation and accumulation out of receipts. In a former case, after carefully examining the origin and growth of that part of the present debt then existing, the Board decided that it constituted a proper demand upon the income, and ought not to be represented by new capital. No fair and just determination of the question of price can be complete without some consideration as to how the cost of these needed alterations should be met and the debt extinguished. A fair price ought always to be ample, with skilful management, to provide for every expense for current operation and maintenance or depreciation, so that the burden of fixed charges shall be restricted to those imposed by necessary capital. The public interest demands not only the lowest reasonable present price, but the adoption and steady pursuit of such a policy as will be most likely to secure the lowest possible price in the future.

These propositions require a high standard of efficiency in the corporate management, yet are evidently just if the company is to be continued in the monopoly of an important public service. To finally and justly determine whether such standard has been fully maintained must often be a question of serious difficulty; but the facts revealed in this case raise a strong presumption that the company has in some measure failed to reach it. Any reduction which under such a policy might have been readily accorded may now be justly required. These are the controlling considerations in this case.

The Board endeavored to name a price which should compel the company to employ the strictest economy and the highest technical skill to fully meet, in its own and the public interest, the responsibilities which its condition at the time imposed.

The Board therefore recommended that from and after the first day of January last the net price charged for gas supplied by the Malden and Melrose Gas Light Company should not exceed \$1.50 per thousand feet.

JAMAICA PLAIN PETITION.

This was an application by customers of the Jamaica Plain Gas Light Company for a reduction in price.

An extended hearing, numerously attended by the petitioners, was held at the office of the Board, at which both parties were represented by counsel, and the case presented with unusual fulness. The evidence then submitted has been supplemented, in accordance with the expressed wish of the parties, by an examination of the company's records, accounts and works, and a careful study of its history, policy, present condition and prospects.

The district supplied is a single ward in the city of Boston, occupied mostly for residences, covering a relatively large area, which is cut into by extensive reservatiors for parks and other public purposes. This has caused a relatively small number of consumers per mile of main, a larger outlay for capital account and somewhat greater leakage or lost gas account than in some other sections. As this territory has steadily grown in wealth and population, the company has made liberal extensions of its mains; and this fact, combined with substantial reductions in price, has steadily increased the output of gas.

With the exception of that issued, in accord with the custom of the time, in part payment for the construction of the original works, the entire capital stock has been paid in in cash, and more than half the present capital has been sold by auction at such a premium that, for every share now outstanding, one hundred and ten dollars in cash has been contributed to the corporation.

A considerable debt has been created by the recent expenditure of liberal sums for improvements and extensions, and no extraordinary demands in this direction are likely to come in the immediate future.

The principle adopted by the Board in former cases, that the company under skilful management is entitled to charge such a price as will provide for the fair cost of manufacture and distribution, and a reasonable amount beyond this for depreciation in plant and a proper dividend, has been generally approved, and was accepted as sound by the petitioners

in this case. By the assistance of those who, up to a recent date, were in charge of the company's affairs and responsible for its success, the petitioners were able to submit definite testimony upon the question of a fair cost, which was given special weight because of the intimate knowledge of the company's affairs which those giving it possessed. this evidence, however, but little attention was paid to the cost of depreciation, although its importance was recognized. Although this is as absolutely and essentially a part of the cost as the coal or labor by which the gas is produced, the amount necessary for it is not easy to determine, and managers of companies have not always appreciated its importance. The public interest demands the regular expenditure of a sum ample at least to maintain the structural value of the entire plant on a level with the capital actually required for its original construction, and a different policy has invariably imposed upon the public the burden of a capitalization far beyond the amount necessary for the conduct of the business. How the end is to be attained. whether by the payment of a debt resulting from extraordinary repairs or reconstruction, or the cost of minor extensions and additions, or by the accumulation of a fund to be used either for future expenditure in these directions, or as an insurance against those accidents which sometimes result from the hazards of the business, is a question which can only be determined by the peculiar conditions attached to individual cases.

The location of this company, in territory adjacent to that in which gas is sold at an apparent profit at a much lower price, has imposed upon the management peculiar difficulties, and naturally encouraged in the public mind a conviction that a substantial reduction could readily be made. While this fact alone affords but little aid in fixing the fair price under conditions so widely different, it may have an important bearing upon the question of a wise policy in the management. It was doubtful if this consideration had been given the weight which it deserved. In the face of all the facts, the company has demanded a profit from which it has paid larger dividends than before these conditions arose. In support of this course, it was urged that the investment

had become an especially hazardous one, and that the right of larger and stronger companies to enter the territory and destroy the value of the stock justified the payment of large dividends while the opportunity existed. Such a spirit and purpose is the prerogative of an unrestricted monopoly only. In ordinary trade, business conditions of this sort impose a conservative spirit and policy upon the management, and compel a reduction in profits rather than an increase.

That the prices in the neighboring territory can be immediately met it is unreasonable to expect, neither was this demanded by the petitioners; but a sound business policy in the company, looking to the preservation of its corporate integrity and its privileges, demands the closest possible approach to them, even though it involve some reduction from former profits.

For these reasons the Board recommended that, from and after the first day of April, the net price for gas supplied by the Jamaica Plain Gas Light Company should not exceed \$1.40 per thousand feet.

MILLBURY PETITION.

This was a petition by the selectmen of the town of Millbury, praying for a reduction in price and improvement in quality of the electric street lights supplied by the Millbury Electric Company.

A public hearing was given upon this complaint in the town of Millbury, at which the petitioners and the company were represented by counsel.

The street lights in the town consist of 33 arc lights of nominal 1,200 candle-power, and six series incandescent lights of 32 candle-power, operated from the arc circuits, upon a moonlight schedule until midnight. For these lights the town has annually appropriated the sum of \$2,500 until the town meeting in the year 1896, when only \$2,000 was appropriated. The company declined to accept the offer by the selectmen of the sum thus voted, and representatives of the town and the company were unable to agree upon any arrangement which would reduce either the number of lights previously supplied or the price paid. After somewhat pro-

tracted negotiations, during a portion of which the lights were not in use, the company offered to supply them at the annual rate appropriated by the town, until this Board, upon petition of the selectmen, should determine what was a fair price for the service, and thereafter at such price; and the selectmen, having been authorized thereto by the town, brought this petition.

The Millbury Electric Company was organized in 1888, and has ever since been engaged in the supply of electric lights for public and private use in the town of Millbury. Its first station was a small building, upon land of its president, containing a small engine and an arc dynamo; and for this plant, with the street lines for arc lighting, it had issued, prior to October, 1889, \$13,000 of the securities which are now outstanding. With this plant both arc and incandescent lights were operated from the same circuits, in accordance with the custom then prevailing in the smaller towns. In the following year this station was abandoned, and a new station of brick was erected upon land purchased by the company, and in it the engine and dynamo were placed, boilers were erected, a new engine and dynamo were installed and new circuits were run for incandescent For the purpose of this new construction the company increased its securities by about \$20,000, so that at the date of the hearing on the petition it had outstanding stock of the par value of \$17,000 and bonds amounting to \$16,000.

Shortly after the close of the hearing the second station and steam plant were abandoned, and the dynamos were removed to the building of the Millbury Water Company, under a contract with that corporation for their operation for a term of years.

There is no standard price for arc lamps, of the class involved in this case, which is of universal application. Not only the number of lights and the hours run, but their relation to other parts of the company's business, are important factors. In reaching a decision, the Board found it necessary to consider not only the street lights but the company's income from its entire business, and the way in which its affairs were managed. Those who invest their money in order to render a public service of this character are entitled to a

reasonable return from the business when properly conducted, but are not entitled, for the sake of such return, to impose upon a community additional burdens on account of careless or incompetent management.

With the price named below the company can expect a reasonable profit only after substantially improving its present methods, and introducing new economies in the supply of private as well as public lights. Of the incandescent lights, those located in private residences are supplied by meter; those in stores and shops upon a contract system at a fixed monthly rental, with little regard to service rendered. A study of this part of the business, conducted subsequent to the hearing, clearly showed that the contract lights were supplied at little or no profit, — probably, indeed, at a considerable loss; and that a readjustment of these rates at a substantial advance, or the supplying of this portion of the company's output through meters, would be necessary, unless an undue share of the company's income was to be derived from street and residence lighting.

The contract made with the water company since the hearing for the operation of its dynamos is expected to make a substantial saving. This contract, however, was not considered of importance in this case, since it must be regarded as entirely experimental; its success has not yet been demonstrated, and is involved in serious doubt. This contract and the relocation of the electric company's dynamos are the result of a common ownership or control in the two corporations. The companies can abrogate or modify it, and may reasonably be expected to do so unless it prove profitable to both.

The company has never earned a dividend, although it has paid one or two; and the various changes and removals referred to have involved large losses, which have greatly reduced, if they have not wholly extinguished, the value of the stock. For these reasons, future dividends have been rendered exceedingly doubtful, and were not considered in the price named. The effort of the Board was to include in such price a fair profit sufficient only to bring a reasonable return upon the capital which might fairly be required for a plant suited to a town of this size and character.

The Board recommended that from and after the date of the decision (December 28) the price charged by the Millbury Electric Company for arc and incandescent lights then in use for street lighting, operated substantially the same number of hours per month as theretofore, should be at a monthly rate which should produce for the whole fiscal year of the town not more than \$2,375; added lights to be supplied, if no more than 7 be required, at \$44 per light per year; and, if the number of lights be reduced, the reduction from the yearly amount named should be at the rate of \$14.50 for each lamp taken from the present number; a pro rata rebate, based upon the number of lights and price paid, to be made for a total failure of service of said lights or any of them, and three incandescent lights to be considered the equivalent of one arc light in all computations.

The question of the quality of the lights was also involved in the petition. Very little evidence was submitted upon this point, however, and that which was presented was so indefinite that the Board was unable to criticise the quality of the lights or provide for their improvement.

No satisfactory tests have ever been made on behalf of the town, no record has been kept by the town of lamps not burning, and no data was presented upon this portion of the petition which could authorize the Board to make any finding whatever. The town authorities have it in their power, without large expense, to obtain data of this character, and its possession would materially aid in remedying any evils that might exist, while a knowledge by the company of the town's purpose to procure it would alone be a strong inducement to render the best possible service.

APPROVAL OF NEW STOCK AND BONDS.

Nineteen applications for approval of issues of new stock or bonds have been decided during the year; three others have been continued, at the request of the petitioners, for further hearing, and one has been withdrawn after being heard. In the cases decided, the amount of securities asked for was \$2,608,000; the amount approved \$1,741,500. In nine instances the full amount sought has been approved. One petition, involving \$15,000, has been dismissed.

PETITION OF THE DORCHESTER GAS LIGHT COMPANY.

This was an application by the Dorchester Gas Light Company for approval of an issue of new stock of the par value of \$150,000, the proceeds to be applied to the payment of its floating debt and the cost of extensions and additions to its distributing plant.

From an examination of the company's accounts and returns, it appeared that its floating debt somewhat exceeded \$90,000, and that this debt existed because of large additions to its distributing plant, principally since June, 1893.

From an examination of the company's property, it appeared that the fair structural value of its entire plant exceeded its capital and debt. A descriptive schedule of the proposed extensions and additions was submitted, and the probable cost of the same was shown to be about \$60,000. It seemed improbable that any portion of the cost of this proposed construction could be paid for out of income in the near future. The following was therefore adopted by the Board:—

On the application of the Dorchester Gas Light Company for approval of an issue of 1,500 shares of new capital stock, of the par value of \$100 each, for the objects named in said application, after public notice and hearing, it appearing that said company has complied with the law relating to such applications, and that the amount of stock hereinafter named is reasonably requisite for the purpose for which such issue of stock has been authorized,—

Ordered, That the Board hereby approves of the issue by the Dorchester Gas Light Company of such a number of shares of new capital stock, not exceeding 1,500 shares, as when issued in conformity with all the requirements of law relating thereto, will produce \$150,000, the said stock, or the proceeds thereof, to be applied to the following purposes and to no other; to wit: proceeds of the said stock to the amount of \$90,000 to the payment of the present floating debt of the company, and to the amount of \$60,000, or so much thereof as may be necessary, to the payment of liabilities incurred since the first day of December, A.D. 1895, for extensions and additions to the distribution plant of the company, and which may hereafter be incurred for like extensions and additions.

And, in order to determine the price or rate at which said shares shall be offered proportionately to the stockholders of said corporation, pursuant to chapter 472 of the Acts of 1894, it is —

Ordered and determined by the Board, taking into account previous sales and other pertinent conditions, that the market value thereof, for the purpose aforesaid, be fixed at \$125 per share; and, if any shares of said stock shall remain unsubscribed for by the stockholders entitled to take them under the provisions of said chapter, it is further

Ordered, That all such shares shall be offered for sale at some suitable place in the city of Boston, and that notice of the time and place of said sale shall be published in the "Boston Daily Advertiser," the "Boston Daily Journal" and the "Boston Daily Herald."

PETITION OF THE BOSTON ELECTRIC LIGHT COMPANY.

This was an application by the Boston Electric Light Company for approval of an issue of bonds to the amount of \$250,000, \$200,000 of the proceeds to be applied to the cost of extensions and additions to the company's plant subsequent to the date of the petition, and \$50,000 to funding a portion of the floating debt then existing.

From an examination and appraisal of the company's property, it appeared that the fair structural value of the plant at the time of the application equalled the outstanding stock and bonds, and from the testimony and schedules submitted at the hearing, that the proposed extensions and additions were needed to meet the public demand, and would require the amount stated in the petition.

The study of the company's plant and its appraisal by the experts selected by the Board showed the true relation existing between the liabilities and the visible and tangible assets of the corporation at present values. It was apparent that, although the company had annually appropriated large sums out of income toward the depreciation due to the rapid progress of the art of electric lighting, the sums thus applied had not been sufficient to fully make up for this loss. Compelled by recent legislation to remove its overhead lines from all that part of the city in which they were most numerous, and to place its new conductors underground, the company

was confronted with another and extraordinary item of depreciation, and another demand for large expenditures in the immediate future. It is reasonable to expect that the public convenience will require still further extensions to supply new demands and occupy new territory. Clearly, this situation imposes upon the corporation, in its own as well as the public interest, the duty to apply from its income a much larger sum than heretofore to the payment of its floating debt and toward the cost of new improvements; such a course will give added strength to the corporation and greater value to its securities.

The Board was satisfied that the income of the company was ample to permit it to adopt the policy of paying its debts rather than of funding them as a permanent burden. In view of all the facts, the Board was able to approve of bonds to meet the cost of the new extensions, but not those intended for the funding of the debt. The following was therefore adopted:—

On the petition of the Boston Electric Light Company for the approval of an issue of bonds to the amount of \$250,000, for the purpose named in said petition, after public notice and hearing, it appearing that said company has complied with the law relating to such applications, and that such amount as is hereinafter approved is reasonably requisite for the purpose for which such issue of bonds is authorized,—

Ordered, That the Board hereby approves of the issue by the Boaton Electric Light Company, at not less than par and accrued interest, in conformity with all the requirements of law relating thereto, of mortgage bonds to an amount not exceeding \$200,000, payable in not exceeding thirty years from the date thereof, and bearing interest at a rate not exceeding 5 per cent. per annum, said bonds and the proceeds thereof to be applied in payment of the cost of additions and extensions to the company's plant made since the first day of July, A.D. 1895, or which may be made subsequent to the date hereof, and to no other purpose.

PETITION OF THE BLACKSTONE ELECTRIC LIGHT COMPANY.

This was an application by the Blackstone Electric Light Company for approval of an issue of new capital stock of the par value of \$10,000.

The company was chartered on Jan. 1, 1896, for the purpose of "the manufacture, distribution and sale of electricity for light, heat and power." Land was purchased, a station building erected, and a generating and distributing plant installed in the town of Blackstone, capable of supplying eighty are lights in the different sections of the town.

It appeared from the evidence at the hearing that in this construction more than \$10,000 had been fairly expended. A descriptive schedule of this plant was filed with the petition, and the Board was satisfied, from an examination of the same in its behalf, that this property would be an ample equivalent for the amount of stock named in the petition. The following was therefore adopted:—

On the petition of the Blackstone Electric Light Company for approval of an issue of new stock to the amount of \$10,000 for the object named in said petition, after public notice and hearing, it appearing that said company has complied with the law relating to such applications, and that the amount of stock as prayed for is reasonably requisite for the purpose for which such issue of stock has been authorized,—

Ordered, That the Board hereby approves of the issue by the Blackstone Electric Light Company of 100 shares of new capital stock, of the par value of \$100 each, in conformity with all the requirements of law relating thereto; the said stock, or the proceeds thereof, to be applied to the purchase of land in the town of Blackstone, the erection thereon of suitable buildings and the proper equipment of the same as an electric lighting station, and for the erection of electric lines in said town, or for the payment of the indebtedness incurred on account of such purchase, construction, equipment and erection, and to no other purpose.

PETITION OF THE LENOX ELECTRIC COMPANY.

The Lenox Electric Company applied for the approval of an issue of new capital stock of the par value of \$20,000.

This company is constituted "to furnish electric light, heat and power in Lenox, Mass., and a portion of the adjoining town of Stockbridge." It received its charter on Aug. 22, 1894. From the evidence at the hearing, it appeared that the amount of stock named in the application had been fully paid in in cash. An underground system for

the distribution of electricity for lighting purposes had been constructed for the company, within the territory named in its charter, and a description of the same was filed with the petition. It has a contract with private parties, owning and operating a generating plant in the town of Lenox, for the supply of electricity for a term of years. The following was therefore adopted:—

On the petition of the Lenox Electric Company for approval of an issue of 200 shares of new capital stock, of the par value of \$20,000, for the object named in said petition, after public notice and hearing, it appearing that said company has complied with the law relating to such applications, and that the amount of stock as prayed for is reasonably requisite for the purpose for which such issue of stock has been authorized,—

Ordered, That the Board hereby approves of the issue by the Lenox Electric Company of 200 shares of new capital stock, of the par value of \$100 each, in conformity with all the requirements of law relating thereto; the said stock, or the proceeds thereof, to be applied to the construction of an electric distributing plant in the towns of Lenox or Stockbridge, or for the payment and cancellation of obligations incurred on account of such construction, and to no other purpose.

PETITION OF THE NATION GAS LIGHT COMPANY.

This was an application by the Natick Gas Light Company for approval of an issue of bonds to the amount of \$15,000, for the purpose of funding its debt and making extensions.

The corporation was organized in 1873, and the plant completed in 1875. When the case was considered the works were on the north side of and adjacent to the location of the Boston & Albany Railroad, at Natick. It appeared at the hearing that when the changes in grade and location of the railroad, which were then in progress for the abolition of the grade crossings in that town, were completed, the railway would be upon land north of and adjacent to the gas works. A portion of the company's real estate had been taken for the railroad location, and a substantial claim on account of this and other damages was in process of adjustment between the parties interested.

It was stated by the representatives of the company that the works were in good condition, with a capacity for double the present output, and that no unusual expenditures except a moderate amount for main extensions would be demanded in the near future.

The debt which it was proposed to pay from the proceeds of the bonds consisted of a mortgage note for \$8,500, payable to the savings bank, and other notes for about \$4,200. \$8.500 note was the unpaid balance of a mortgage note given shortly after the completion of the plant, and in part payment for the same, the issue of stock being insufficient for that purpose. The floating debt represented by the other notes named had accumulated since June 30, 1891, nearly all of it within the year following. Until June 30. 1890. the company paid regular dividends; but the returns show that the last dividend paid was not fully earned, and that since that date no dividends have been earned or paid. It was doubtful whether the expenditures on account of plant had been sufficient to fully make up for depreciation. thus appeared that this part of the debt was not incurred for new plant, but rather on account of current operation or maintenance. Under such conditions, it should not impose a permanent burden upon the public and the company, through its conversion into capital or long-time bonds for whose payment no special provision is made.

The property to be taken for railway purposes is a part of the company's original purchase, in which its capital was invested, and the money received for such damages the corporation is bound to use in such way as may be deemed to be for the best interests of the plant. In the company's condition, it was clear that it would be needed either for improvement and extension of the plant or payment of floating debt, unless it should be demanded by the holders of the mortgage which covers the land taken. Such receipts are no part of the earnings or profits, and a sound policy requires that they shall not be lost to the corporation through their division among the stockholders.

Although the negotiations between the parties had not gone so far as to determine the amount which the company would receive, it seemed probable that it would be more than ample to provide for the extensions then contemplated. The Board was obliged to withhold its approval of any portion of the bonds named in the petition until the amount of this claim should be more definitely determined and the conditions which its settlement will bring could be more clearly understood. The Board was assured that the holders of the notes representing this debt had made no request for their payment, and would probably be willing to continue to hold them for a reasonable period. This action upon the petition was taken without prejudice as to so much of the mortgage as might remain unpaid, and as to the amount needed for extensions after the settlement of the claim for damages. The following was therefore adopted:—

Upon the petition of the Natick Gas Light Company for approval of an issue of bonds to the amount of \$15,000, for the purpose of funding its debt and making extensions,—

Ordered, That said petition be dismissed.

PETITION OF THE BOSTON ELECTRIC LIGHT COMPANY.

This was an application by the Boston Electric Light Company for approval of an issue of bonds to the amount of \$200,000 in addition to the amounts heretofore approved, for the purpose of constructing underground conduits and placing wires therein.

From the evidence presented at the hearing and the investigation by the Board, it appeared that, pursuant to the requirements of chapter 454 of the Acts of 1894, the petitioner had constructed underground conduits in the districts designated by the commissioner of wires for the years 1894 and 1895, and to a considerable extent outside of such districts, and had placed its wires in the conduits. The area of the 1894 and the 1895 districts is about two-fifths, and the district designated for 1896 is about one-quarter, of the total area to which the statute applies.

The bonds previously approved for this purpose, amounting to \$360,000, had been sold for cash at not less than par, and the proceeds applied as prescribed by the Board. The cost of the work had somewhat exceeded the amount of bonds issued for the purpose. A detailed schedule of the

work proposed for the current year was submitted, and the Board was satisfied that the probable cost of the same would equal the amount named in the petition. The following was therefore adopted:—

On the petition of the Boston Electric Light Company, by the president and treasurer thereunto duly authorized, for the approval of an issue of bonds to the amount of \$200,000, in addition to those heretofore approved, pursuant to the vote of the stockholders of said corporation on the fourteenth day of August, 1894, to run for a term of thirty years from the date thereof, for the purpose of paying the expenses of placing its wires underground, after public notice and hearing, it appearing that said company has complied with the law relating to such applications, and that such amount as is hereinafter approved is reasonably requisite for the purposes for which such issue of bonds is authorized,—

Ordered, That the Board hereby approves of the issue by the Boston Electric Light Company, at not less than par and accrued interest, in conformity with all the requirements of law relating thereto, of mortgage bonds to an amount not exceeding \$200,000, in addition to those heretofore approved, payable in not exceeding thirty years from the date thereof and bearing interest at a rate not exceeding five per cent. per annum; the proceeds of said bonds, or so much thereof as may be necessary, to be applied to the payment of liabilities now or hereafter incurred for constructing underground conduits and placing therein the wires of said company.

PETITION OF THE ELECTRIC LIGHT AND POWER COMPANY OF ABINGTON AND ROCKLAND.

The Electric Light and Power Company of Abington and Rockland applied for the approval of an issue of new capital stock of the par value of \$8,500.

On July 5, 1894, when the act forbidding the issue of new stock without the approval of this Board went into effect, the petitioner had outstanding 665 shares of the par value of \$66,500, and a floating debt amounting to \$50,000. Since that date the officers of the company, without the approval of this Board and in a manner other than that required by law, issued 64 shares of new stock at par, and applied the proceeds thereof to a reduction of its debt. It was understood that the proceeds of a part of the

stock named in the petition were to be applied to the cancellation of the shares issued in this manner, and the remainder toward the payment of the floating debt.

From an examination of the company's plant on behalf of the Board, it appeared that its fair structural value would exceed the total amount of stock after the issue of the amount named in the petition. The following was therefore adopted:—

On the petition of the Electric Light and Power Company of Abington and Rockland for approval of an issue of new stock for the object named in said application, after public notice and hearing, it appearing that said company has complied with the law relating to such applications, and that new capital stock to the amount hereinafter named is reasonably requisite for the purpose for which such issue of stock has been authorized,—

Ordered, That the Board hereby approves of the issue by the Electric Light and Power Company of Abington and Rockland of 85 shares of new capital stock of the par value of \$100 each, in conformity with all the requirements of law relating thereto, the proceeds of said stock to be applied to the following purposes, and to no other; to wit: the proceeds of 64 shares, of the par value of \$6,400, or so much thereof as may be necessary, to the purchase and cancellation of the 64 shares issued since July 5, 1894; the remaining proceeds of said shares and the proceeds of 21 shares of the par value of \$2,100 to be applied in payment of the outstanding promissory notes of said company.

And for the purpose of determining the price or rate at which said shares shall be offered proportionately to the stockholders of said corporation, pursuant to chapter 472 of the Acts of 1894, it is further—

Ordered and determined by the Board, taking into account previous sales and other pertinent conditions, that the market value thereof for the purposes aforesaid be fixed at \$100 a share; and if any shares of said stock shall remain unsubscribed for by the stockholders entitled to take them under the provisions of said chapter, it is further—

Ordered, That all such shares shall be offered for sale at some suitable place in the town of Abington, and that notice of the time and place of said sale shall be published in the "Boston Daily Advertiser," the "Brockton Daily Enterprise" and the "Brockton Daily Times."

PETITION OF THE ATHOL GAS AND ELECTRIC COMPANY.

This was an application by the Athol Gas and Electric Company for the approval of new capital stock to the amount of \$25,000 and of bonds to the amount of \$50,000 for the purpose of refunding bonds now outstanding and the payment of the floating debt.

The company at the date of the hearing had outstanding capital stock of the par value of \$25,000 and bonds to the amount of \$25,000. Its floating debt amounted to about \$38,000, of which nearly \$29,000 was in promissory notes. The Board was satisfied, upon an examination of the plant and history of the company, with the evidence submitted at the hearing, that this floating debt had accumulated on account of extensive alterations and additions to the company's plant since the issue of the bonds then outstanding, and that the bonds were issued in part payment for the original purchase of the plant. The following was therefore adopted:—

On the application of the Athol Gas and Electric Company for the approval of an issue of new stock to the amount of \$25,000 and of bonds to the amount of \$50,000 for the objects named in said application, after public notice and hearing and after an examination of the assets and liabilities of said company, it appearing that said company has complied with the law relating to such applications, and that the amount of stock and bonds hereinafter named is reasonably requisite for the purposes for which such issue of stock and bonds has been authorized,—

Ordered, That the Board hereby approves of the issue by the Athol Gas and Electric Company, in conformity with all the requirements of law relating thereto, of 150 shares of new capital stock of the par value of \$100 each, the proceeds of said stock to be applied to the payment and cancellation of the outstanding promissory notes or other debts of said corporation, and to no other purpose.

Ordered, further, That the Board hereby approves of the issue by the Athol Gas and Electric Company, at not less than par and accrued interest, in conformity with all the requirements of law relating thereto, of mortgage bonds to an amount not exceeding \$40,000, payable in not exceeding twenty years and bearing interest at a rate not exceeding six per cent. per annum, said bonds or the proceeds thereof to be applied to the following purposes and to no other; to wit: bonds to the amount of \$25,000, or the proceeds thereof, are to be applied to the refunding and cancelling of an equal amount, bond for bond, of the first mortgage bonds of said company now outstanding, and the proceeds of the remaining bonds to be applied to the payment and cancellation of the outstanding promissory notes and other debts of said company.

And, for the purpose of determining the price or rate at which said shares of new capital stock shall be offered proportionately to the stockholders of said corporation, pursuant to chapter 472 of the Acts of the year 1894, it is further —

Ordered and determined by the Board, taking into account previous sales and other pertinent conditions, that the market value thereof for the purposes aforesaid be fixed at \$100 per share; and if any shares of said stock shall remain unsubscribed for by the stockholders entitled to take them under the provisions of said chapter, it is further—

Ordered, That all said shares shall be offered for sale at some suitable place in the city of Boston, and that notice of the time and place of said sale shall be published in the "Boston Daily Advertiser," the "Boston Daily Herald" and the "Boston Daily Journal," newspapers published in said city of Boston.

APPLICATION OF THE FALL RIVER ELECTRIC LIGHT COMPANY.

This was a petition by the Fall River Electric Light Company, under the provisions of chapter 143 of the Acts of 1896, for approval of an issue of new capital stock of the par value of \$150,000, for the purpose of purchasing all the property, rights and franchises of the Edison Electric Illuminating Company of Fall River.

By the terms of this chapter the petitioner was empowered to receive a transfer and conveyance of all the property, rights and franchises of the Edison Electric Illuminating Company, and for the purpose of purchasing the same was authorized "to increase its capital stock from \$200,000, its present amount, to \$350,000, and the number of shares from 2,000, the present number, to 3,500, and to issue the shares of such increase to said Edison Electric Illuminating Company, or to its stockholders, in payment" therefor. The purchase of this property by the petitioner and the sale of the same by the Edison Company, upon the terms named

in the act, appeared to have been fully authorized by the stockholders of the two corporations respectively.

Section 2 of the act also provides "that the issue of new stock shall be made in accordance with the provisions of chapter 450 of the Acts of the year 1894;" that is to say, that the petitioner may issue the said stock, if, upon investigation, this Board finds the same to be reasonably requisite for the purpose of effecting said purchase and sale.

At the public hearing on this petition, duly advertised and held in the city of Fall River, no person appeared in opposition. Upon an examination of the plant of the Edison Company, the fair structural value of the same appeared to be somewhat greater than the par value of the stock proposed to be issued, and the supplies on hand and other quick assets, as shown by the company's accounts, somewhat exceeded its floating debt. The following was therefore adopted:—

On the petition of the Fall River Electric Light Company, pursuant to chapter 143 of the Acts of the year 1896, for approval of the issue of 1,500 shares of new capital stock of the par value of \$100 each, for the purposes set forth in said application and act, after public notice and hearing, it appearing that said company has complied with the law relating to such application, and that the amount of stock as prayed for is reasonably requisite for the purposes for which such issue of stock has been authorized,—

Ordered, That the Board hereby approves of the issue by the Fall River Electric Light Company of 1,500 shares of new capital stock of the par value of \$100 each, the said stock or the proceeds thereof to be applied to the purchase of all the property, rights, licenses, privileges and franchises of the Edison Electric Illuminating Company of Fall River, and to no other purpose.

APPLICATION OF THE FALL RIVER GAS WORKS COMPANY.

This was an application by the Fall River Gas Works Company for approval of an issue of new capital stock of the par value of \$212,000 and of bonds to the amount of \$50,000, for the purpose of purchasing the property and plant of the Manufacturers' Gas Light Company of Fall River, and for enlarging and extending the plant of the petitioner.

The Fall River Gas Works Company was organized in 1880, for the purpose of the manufacture and sale of gas,

and has ever since been engaged in supplying the city and private consumers. Its capital stock outstanding at the time of the hearing was \$288,000.

The Manufacturers' Gas Light Company was organized in the same year. Its stock was originally subscribed and had since been held by certain mill corporations in Fall River, the original purpose of the company having been to supply the mills with gas. The business had, however, been extended to the supplying of private consumers and the city for street-lighting purposes.

The outputs of both companies had reached such a point that, if both were to have continued in the business and fairly answered the demand likely to be made upon them by the public, both would have been obliged to promptly incur large expenditures. If the purchase contemplated by this petition and for which the preliminary arrangements had been completed were effected, much of this expenditure would become unnecessary, and substantial economies might be made in the joint operation of the two concerns.

It appeared from the testimony submitted at the hearing that the Manufacturers' Company was willing and ready to dispose of its plant for the equivalent of about 780 shares of the capital stock of the petitioner. The Board was satisfied that such a price would not exceed the fair structural value of the plant. In fixing this price, no value was attached to the franchise or other intangible property of the corporation. No transfer of the franchise seemed necessary to enable the petitioner to operate the works, and it appeared at the hearing that no such transfer was to be made. The evidence showed that the owners of the selling company intended, if the proposed sale were effected, to dissolve the corporation.

The improvements and extensions contemplated by the petition, if the purchase of the plant of the Manufacturers' Company were effected, consisted in the erection of new machinery for the manufacture of water gas, the construction of a new holder, the connecting of the two works by a large pumping main, and other additions appurtenant to those named.

In the opinion of the Board, the amount of stock hereinafter named is ample without the issue of bonds to provide for the work described. The following was therefore adopted by the Board:—

On the application of the Fall River Gas Works Company for the approval of an issue of new stock to the amount of \$212,000 and of bonds to the amount of \$50,000, for the objects named in said application, after public notice and hearing, it appearing that said company has complied with the law relating to such applications, and that the amount of stock hereinafter named is reasonably requisite for the purposes for which such issue of stock has been authorized. —

Ordered, That the Board hereby approves of the issue by the Fall River Gas Works Company, in conformity with all the requirements of law, of 1,620 shares of new capital stock, of the par value of \$100 each, the proceeds thereof to be applied to the following purposes, and to no other; to wit: 780 shares, or the proceeds thereof, to the purchase of all the property, real and personal, credits, contracts, leases and effects of every name, nature and description, belonging to the Manufacturers' Gas Light Company of Fall River; 840 shares, or the proceeds thereof, or so much thereof as may be necessary, to enlarging and extending the plant and works of the Fall River Gas Works Company and for properly connecting the plant of said company and the plant now owned by the Manufacturers' Gas Light Company.

And, for the purpose of determining the price or rate at which said shares shall be offered proportionately to the stockholders of said corporation, pursuant to chapter 472 of the Acts of 1894, it is —

Ordered and determined by the Board, taking into account previous sales and other pertinent conditions, that the market value thereof for the purposes aforesaid be fixed at \$125 a share; and if any shares of said stock shall remain unsubscribed for by the stockholders entitled to take them under the provisions of said chapter, it is further,—

Ordered, That all such shares shall be offered for sale at some suitable place in the city of Boston, and that notice of the time and place of said sale shall be published in the "Boston Daily Advertiser," the "Fall River Evening News," the "Fall River Daily Globe" and the "Philadelphia Daily Press."

Ordered, further, That the Board declines to approve an issue of bonds for the purposes named in said petition.

PETITION OF THE ATTLEBOROUGH STEAM AND ELECTRIC COMPANY.

This was a petition for approval by the Board of the issue by the Attleborough Steam and Electric Company of bonds to the amount of \$35,000.

This company was chartered under the general law in October, 1894. On Jan. 1, 1895, the Board, after an examination of the company's plant, approved an issue of 650 shares of new capital stock, for the purpose of paying for its plant, subject to an existing mortgage of \$10,000. Since that date extensive improvements and additions had been made to the plant, and the debt incurred therefor at the time of the hearing amounted to about \$12,000. Capital stock to the amount of \$65,000 was originally issued, but the capital was reduced prior to the hearing to \$35,000.

From the evidence submitted, it appeared that the company intended to apply the proceeds of these bonds to the cancellation of the mortgage, the reduction of the floating debt incurred as stated above, and further extension of its plant. The following was therefore adopted:—

On the application of the Attleborough Steam and Electric Company for the approval of an issue of bonds to the amount of \$35,000, for the object named in said application, after public notice and hearing, it appearing that said company has complied with the law relating to such applications, and that the amount of bonds as prayed for is reasonably requisite for the purposes for which said issue of bonds has been authorized,—

Ordered, That the Board hereby approves of the issue by the Attleborough Steam and Electric Company, at not less than par and accrued interest, in conformity with all the requirements of law relating thereto, of mortgage bonds to an amount not exceeding \$30,000, payable in not exceeding twenty years from the date thereof, and bearing interest not exceeding 6 per cent. per annum. said bonds, or the proceeds thereof, to be applied to the following purposes and to no other; to wit: bonds to the amount of \$10,000, or the proceeds thereof, are to be applied to the payment of the outstanding mortgage note of the company for \$10,000, and the cancellation of the mortgage to secure the same; bonds to the amount of \$12,000, or the proceeds thereof, or so much of said amount as may be necessary, are to be applied to the payment of liabilities already incurred for the alteration, reconstruction and extension of the company's plant; and the proceeds of the remaining bonds, to the amount of \$8,000, or so much thereof as may be necessary, to the payment of liabilities which may hereafter be incurred for further enlargement and extension of the plant of the company.

PETITION OF THE NATICE GAS AND ELECTRIC COMPANY.

The Natick Gas and Electric Company petitioned for the approval by the Board of an issue of bonds to the amount of \$5,000.

This corporation was organized and received its charter in January, 1895. Immediately thereafter it was authorized to issue capital stock of the par value of \$62,000 and bonds to the amount of \$57,000, for the purpose of purchasing the properties of the Natick Electric Company and the Eliot Falls Electric Light Company, and of connecting the two plants for the purpose of operating them together.

After the purchase and the union of these plants the company contracted with the towns of Wellesley and Needham for supplying commercial lights within their respective territories. It appeared at the hearing that the company desired to issue the bonds named in its petition for the purpose of constructing its lines in these towns. The following was therefore adopted:—

On the application of the Natick Gas and Electric Company for the approval of additional bonds to the amount of \$5,000, for the object named in said application, after public notice and hearing, it appearing that said company has complied with the law relating to such applications, and that the amount of bonds hereinafter named is reasonably requisite for the purpose for which said issue of bonds has been authorized, —

Ordered, That the Board hereby approves of the issue by the Natick Gas and Electric Company, in conformity with all the requirements of law relating thereto, of bonds to an amount not exceeding \$5,000, at not less than par and accrued interest, and bearing interest at a rate not exceeding 6 per cent. per annum; the proceeds of said bonds, or so much thereof as may be necessary, to be applied to liabilities incurred or to be incurred for the extension of its electric lines in the towns of Wellesley and Needham, and to no other purpose.

PETITION OF THE CHELSEA GAS LIGHT COMPANY.

This was an application by the Chelsea Gas Light Company for approval of an issue of bonds to the amount of \$50,000 in addition to those already outstanding, for the purpose of paying its floating debt and enlarging its plant. In former reports upon the plant and business of this corporation, the Board has referred to the excess of the securities outstanding above the fair structural value of the plant. Since then the dividends of the company have been reduced and for a time entirely suspended, so that a large part of the company's profits have been employed for the enlargement and improvement of the plant to meet the increased demands of its business. The floating debt referred to in the petition was incurred for the same purpose.

The Board was satisfied that the extensions described in the company's petition would be necessary to properly supply the public; that the relation of the structural value of the plant to the securities outstanding was still such as to demand a conservative policy with respect to new capital stock or bonds, and that a portion of the amount needed for the new work might fairly, in the interest of the company and the public, be provided out of income. The following was therefore adopted by the Board:—

On the petition of the Chelsea Gas Light Company for approval of an issue of bonds to the amount of \$50,000 for the payment of existing indebtedness and the cost of additions and extensions to its plant, after public notice and hearing, it appearing that said company has complied with the law relating to such applications, and that the amount hereinafter named is reasonably requisite for the purposes for which such issue of bonds has been authorized,—

Ordered, That the Board hereby approves of the issue by the Chelsea Gas Light Company, at not less than par and accrued interest, in conformity with all the requirements of law relating thereto, of mortgage bonds to an amount not exceeding \$30,000, payable in not exceeding twenty years from the date thereof, and bearing interest at a rate not exceeding 5 per cent. per annum; the proceeds of said bonds to be applied to the following purposes and no other; to wit: bonds to the amount of \$10,000, or the proceeds thereof, to the payment and cancellation of the company's notes now outstanding, and the proceeds of bonds to the amount of \$20,000, or so much thereof as may be necessary, to the payment of other obligations now or hereafter incurred for additions and extensions to plant.

PETITION OF THE WESTON ELECTRIC LIGHT COMPANY.

This was an application by the Weston Electric Light Company for the approval of an issue of capital stock to the amount of \$5,000.

The certificate of incorporation was issued April 25, 1896, and in it the purpose of the corporation is declared to be "to prosecute in the town of Weston, Mass., and vicinity, the general business of producing, using and supplying light, heat and power generated by means of electricity; and of applying magnetism and other forces and energies to practical service for light, heat, power and other uses; and to manufacture, purchase and sell all kinds of articles, machinery and apparatus for the purposes aforesaid, and to do any and all acts or things incident thereto."

The petitioner did not own or operate an electric lighting plant at the time of the application, but the proceeds of the proposed issue of stock were to be applied in payment for the electric lighting plant erected and then owned by the Weston Aqueduct Company. Upon an examination of this plant, on behalf of the Board, the fair structural value of the same appeared to somewhat exceed the amount of stock named in the petition. The following was therefore adopted by the Board:—

On the petition of the Weston Electric Light Company for the approval of an issue of capital stock of the par value of \$5,000, for the object named in said petition, after public notice and hearing, it appearing that said company has complied with the law relating to such applications, and that said amount of stock is reasonably requisite for the purposes for which such issue of stock has been authorized,—

Ordered, That the Board hereby approves of the issue by the Weston Electric Light Company of 50 shares of new capital stock of the par value of \$100 each, in conformity with all the requirements of law relating thereto; and that said stock, or the proceeds thereof, be applied to the purchase, free and clear of all incumbrances, of the steam engine, dynamo, shafting, belting, electric lines, converters, meters and all appurtenances and fixtures thereto belonging, and all the electric lighting business, rights, credits, licenses, franchises, contracts and effects of every name, nature

and description, now or recently the property of the Weston Aqueduct Company, meaning and intending thereby all the electric lighting plant and property now or recently of said Aqueduct Company, and to no other purpose.

PETITION OF THE BROOKLINE GAS LIGHT COMPANY.

The Brookline Gas Light Company petitioned for the approval of an issue of additional bonds to the amount of \$1,000,000, the proceeds of the same to be applied, as appeared by the vote of the corporation, to the payment of obligations incurred for the enlargement and extension of its plant and the purchase of real estate for the use of the company.

The company had outstanding at the date of the decision capital stock of the par value of \$2,000,000, mortgage bonds to the amount of \$1,000,000, and, as a part of its floating debt, certificates of indebtedness or promissory notes payable in two years from date, amounting to \$1,500,000. It appeared at the hearing that the company desired to use the bonds asked for in the petition for the purpose of paying or funding a portion of these certificates.

The Board endeavored, by the study of the company's accounts and plant, to determine how much of the total investment might under existing conditions be properly represented in additional securities. An examination of the plant and estimate of its structural value was made by a competent expert, who submitted a detailed report of the same. By this appraisal, after corrections for what seemed to the Board, upon a careful examination of the same and inquiry of the appraiser, to be obvious errors, the structural value of the plant appeared to be, in round numbers, \$3,300,000. This amount did not include anything for gas stoves upon the premises of the consumer, to which he had acquired a title defeasible only upon his refusal to use the company's gas within a limited period, nor those other fixtures and appliances which had been supplied to consumers to induce them to become such, the title to which had either passed entirely out of the company, or was seriously in question.

Taking the various tracts of land in Brookline and Boston at a valuation representing the amount expended for the

same, as nearly as could be ascertained from the books of the company, the total investment for land appeared to be approximately \$125,000. Adding this to the amount of the appraisal gave \$3,425,000.

The books of the company show expenditures and construction accounts much larger than this amount. Whether this difference be due to the expense of establishing the business in competition with other companies in the city of Boston, to the enhanced cost of the plant on account of extraordinary conditions attending its construction, or to recent reductions in the cost of materials, — whether chiefly to some one or to all of these causes the Board did not assume to decide, and might have been unable to accurately determine, either from a thorough examination of the accounts or from any other available source. Whatever the cause, this difference, under the policy adopted by the Board, should not be represented in capital, unless some substantial advantage such as did not appear in this case can be thereby secured.

It being deemed by the Board, upon the facts as presented, that an issue of bonds to the amount of \$425,000 was at that time and under existing conditions reasonably requisite for the purposes for which such issue was authorized, the following was adopted:—

On the petition of the Brookline Gas Light Company for the approval of an issue of bonds to the amount of \$1,000,000, pursuant to the vote of the stockholders of said corporation on the eleventh day of June, 1896, to run for a term of not more than thirty years from the date thereof, for the purpose of paying obligations incurred for the enlargement and extension of its plant and the purchase of real estate for the use of the company, after public notice and hearing and upon such further investigation as was deemed requisite, it appearing that the purposes for which it is proposed to issue said bonds are lawful, and that such amount as is hereinafter approved is reasonably requisite for the purposes for which such issue of bonds is authorized,—

Ordered, That the Board hereby approves of the issue by the Brookline Gas Light Company, at not less than par and accrued interest, in conformity with all the requirements of law relating thereto, of second-mortgage bonds to an amount not exceeding \$425,000, payable in not exceeding thirty years from the date thereof, and bearing interest at a rate not exceeding 6 per cent.

per annum; said bonds or the proceeds thereof to be applied to the refunding and cancelling of an equal amount of certificates of indebtedness of said company now outstanding, and to no other purpose.

PETITION OF THE MARTHA'S VINEYARD ELECTRIC LIGHT

This was an application by the Martha's Vineyard Electric Light and Power Company for approval of an issue of new capital stock of the par value of \$15,000.

The certificate of incorporation, which was issued under date of Dec. 10, 1895, authorizes capital stock to the amount of \$15,000, and declares the purpose of the corporation to be "to manufacture, sell and distribute electricity for use for lighting, for heating and for power upon the island of Martha's Vineyard." The company did not at the time of the hearing own or operate a gas or electric plant.

This corporation is chartered for the purpose of supplying electric light, and is therefore an electric light company within the provisions of chapter 450 of the Acts of 1894, under which this application was made. It appeared from the evidence submitted at the hearing that the proceeds of such stock as might be approved by the Board were to be applied only to the purchase of a plant for the supply of electric power which was already in operation, and was held by a trustee for the benefit of the members of the petitioning corporation. A descriptive schedule of this plant was submitted and an examination of the plant was made on behalf of the Board. The Board found that the amount of stock hereinafter named was ample for the purchase of the plant described. The following was therefore adopted:—

On the application of the Martha's Vineyard Electric Light and Power Company for the approval of an issue of new capital stock to the amount of \$15,000, for the object named in said application, after public notice and hearing, it appearing that said company has complied with the law relating to such applications, and it being deemed by the Board that the issue of capital stock to the amount hereinafter named is reasonably requisite for the purpose for which such issue is authorized, as hereinafter specified, it is—

Ordered, That the Board hereby approves of the issue by the Martha's Vineyard Electric Light and Power Company of 110 shares of new capital stock, of the par value of \$100 each, in conformity with all the requirements of law relating thereto; the said stock, or the proceeds thereof, or so much thereof as may be necessary, to be applied to the following purpose, and to no other; to wit: to the purchase, free and clear of all incumbrances, of the electric power plant now situated in Cottage City in said Commonwealth, now or formerly owned or held by one Fred Nichols as trustee, meaning and intending thereby all the steam and electric machinery and apparatus, tools and appliances pertaining thereto, substantially as set forth in the descriptive schedule thereof, filed with the petition of said corporation; also the tract of land and buildings upon and within which the same are located.

PETITION OF THE WHITMAN LIGHT AND POWER COMPANY.

The Whitman Light and Power Company applied for the approval of an issue of new capital stock of the par value of \$25,000 and of bonds to the amount of \$25,000.

This company received its certificate of incorporation on June 30, 1896, and was organized for the purpose of supplying electricity for light, heat or power in Whitman and adjacent towns. It did not at the time of the hearing own or operate an electric lighting plant, but it appeared that the object of the application was to enable it to purchase the plant and property formerly owned by the Whitman Electric Company.

The Whitman Electric Company was engaged in the business of supplying electric light in the town of Whitman until early in May, 1896, when its plant was sold under foreclosure of mortgage and purchased in the interest of the bondholders, who were represented by the petitioner in this case.

From the evidence submitted at the hearing, and an examination of the plant, accounts and records of the Whitman Electric Company, the Board was satisfied that the amount of stock and bonds hereinafter named would fairly represent the structural value of the property. The following was therefore adopted:—

On the application of the Whitman Light and Power Company for the approval of an issue of new capital stock to the amount of \$25,000 and of mortgage bonds to the amount of \$25,000, for the object named in said application, it appearing that the company has complied with the law relating to such applications, and it being deemed by the Board that the issue of capital stock and bonds to the amount hereinafter named is reasonably requisite for the purpose for which such issue is authorized as hereinafter specified, it is —

Ordered. That the Board hereby approves of the issue by the Whitman Light and Power Company of 220 shares of new capital stock, of the par value of \$100 each, and of the issue, at not less than par and accrued interest, of mortgage bonds to an amount not exceeding \$18,000, payable in not exceeding thirty years from the date thereof, and bearing interest at a rate not exceeding 6 per cent. per annum; the said stock and bonds to be issued in conformity with all the requirements of law relating thereto, and the proceeds thereof to be applied to the following purposes and to no other; to wit: to the purchase, free and clear of all incumbrances, of all the property, real and personal, business, rights, franchises, contracts and effects of every name, nature and description, formerly belonging to the Whitman Electric Company, now or recently held by the General Electric Company, together with all the additions and improvements made to and in said property, and to no other purpose.

PETITION OF THE UNITED ELECTRIC LIGHT COMPANY OF SPRINGFIELD.

This was an application by the United Electric Light Company of Springfield for the approval of an issue of bonds to the amount of \$200,000, \$90,000 of the same for the construction and equipment of an auxiliary station in the village of Indian Orchard, and the remaining \$110,000 for the purpose of funding a portion of its floating debt.

The petitioner is the owner of a majority of the stock of the Indian Orchard Company, and, by the terms of chapter 386 of the Acts of 1896, "may hold the stock of the Indian Orchard Company, and may issue bonds in such amounts as the Board of Gas and Electric Light Commissioners may determine, and may mortgage or pledge as security for the payment of such bonds any or all of its estate, real and personal." By these provisions it would seem that the

Legislature intended not only to authorize the company to invest in said stock, but to issue bonds for the purpose of enabling it to acquire and retain such holdings.

The company's buildings and equipment were examined by competent experts on behalf of the Board, and an estimate of the fair structural value of the same submitted. If the shares of stock in the Indian Orchard Company be taken at a valuation fixed by the State for the purpose of taxation, and the land of the company in the city of Springfield at the cost of the same, these items, added to the amount of the appraisal referred to, give a valuation for the combined properties somewhat in excess of the amount of the outstanding stock and the bonds asked for in the petition for the purpose of reducing the floating debt.

Plans and estimates for the construction and equipment of the auxiliary station were submitted. The necessary building was partly completed, and contracts had been made for most of the equipment. The Board was satisfied that the cost of this work would exceed the amount named in the petition. Upon the completion of the new station, as planned, the company's plant and its holdings in the Indian Orchard Company at the valuation referred to will be ample to represent the entire stock and bonds then outstanding. The following was therefore adopted:—

On the petition of the United Electric Light Company of Spring-field for approval of an issue of bonds to the amount of \$200,000, for the purpose of funding a part of its floating debt and of constructing and equipping an auxiliary station at Indian Orchard, after public notice and hearing, it appearing that said company has complied with the law relating to such applications, and that such amount as is hereinafter approved is reasonably requisite for the purposes for which such issue of bonds is authorized,—

Ordered, That the Board hereby approves of the issue by the United Electric Light Company of Springfield, at not less than par and accrued interest, in conformity with all the requirements of laws relating thereto, of sinking fund bonds to an amount not exceeding \$200,000, payable in not exceeding twenty years from the date thereof, and bearing interest at a rate not exceeding 5 per cent. per annum; said bonds or the proceeds thereof to be applied to the following purposes and to no other; to wit: bonds to the amount of \$90,000, or the proceeds thereof, or so much

thereof as may be necessary, are to be applied to the payment of obligations which have been or may hereafter be incurred, for the construction and equipment of an electric station in the village of Indian Orchard in the city of Springfield, and for the construction of lines for the proper transmission of the electricity there generated; bonds to the amount of \$110,000, or the proceeds thereof, or so much thereof as the company may deem advisable, are to be applied to the funding and cancelling of an equal amount of the company's floating debt incurred for other purposes.

PETITION OF THE JAMAICA PLAIN GAS LIGHT COMPANY.

This was an application by the Jamaica Plain Gas Light Company for approval of the issue of 1,000 shares of new capital stock of the par value of \$100,000, for the purpose of paying its floating debt and extending and reconstructing its plant.

Of the floating debt of \$65,000, about \$45,000 included the cost of land recently purchased by the company, and the unpaid portion of a much greater sum which had been expended for the enlargement and reconstruction of the company's plant at different periods.

The district supplied by the company is a rapidly growing one, and the demands for the extension of its mains are frequent and urgent. A schedule of those which the company desired and intended to lay was submitted with the petition. A descriptive schedule was also submitted of extensive alterations and additions to the company's plant, with an estimate of their probable cost. A study of the condition of the company and its plant showed the necessity for the additions and alterations proposed, in order to secure a satisfactory and economical supply to its consumers.

Were the company free from its indebtedness on account of former improvements and the addition to its real estate, its income would be ample to provide for those extensions and alterations, which seemed imperative. If such alterations were unnecessary, this income would be ample to extinguish the debt within a reasonable period. To require both the cost of these improvements and the debt to be paid out of income might be embarrassing to the company and impose an unfair burden upon the consumers.

The necessity for a considerable expenditure for recon-

struction and the existence of the debt already incurred for a similar purpose will require the application of a liberal share of the company's earnings, and may well impose upon the management a conservative policy as to dividends until the indebtedness thus incurred shall be extinguished. While such portions of the expenditure referred to as clearly represent additions to the company's property should be represented in new capital, the remainder is a legitimate charge upon earnings. For these reasons the following is adopted by the Board:—

On the application of the Jamaica Plain Gas Light Company for the approval of an issue of new capital stock to the amount of \$100,000, for the object named in said application, after public notice and hearing, it appearing that said company has complied with the law relating to such applications, and that the amount of capital stock hereinafter named is reasonably requisite for the purpose for which such issue of stock has been authorized,—

Ordered, That the Board hereby approves of the issue by the Jamaica Plain Gas Light Company, in conformity with all the requirements of law relating thereto, of 400 shares of new capital stock, of the par value of \$100 each, the proceeds thereof to be applied to the following purposes, and to no other; to wit: the proceeds of 250 shares to the payment of part of the present floating debt of the company and the cost of additions to plant, as described in the schedule of such additions filed with the petition; and the proceeds of 150 shares to the payment of liabilities which may be hereafter incurred for the extension of the street-main system.

And, for the purpose of determining the price or rate at which the said shares shall be offered proportionately to the stockholders of the said corporation, pursuant to chapter 472 of the Acts of 1894, it is further—

Ordered and determined by the Board, taking into account previous sales and other pertinent conditions, that the market value thereof for the purposes aforesaid be fixed at \$110 per share; and, if any shares of said stock shall remain unsubscribed for by the stockholders entitled to take them under the provisions of said chapter, it is further—

Ordered, That all such shares shall be offered for sale at some suitable place in the city of Boston, and that notice of said time and place of sale shall be published in the "Boston Daily Advertiser," the "Boston Daily Herald" and the "Boston Daily Journal," newspapers published in said city of Boston.

MUNICIPAL OWNERSHIP.

Official reports relative to action about a municipal plant for gas or electric lighting have been received from 210 towns and cities. Included in this number are all those in which the population exceeds 1,500. Of these municipalities, 179 have taken no action during the year 1896.

The towns of Belmont, Concord and Rockland and the city of Holyoke have considered the subject for the first time.

During the year the new plant in Chicopee has been put in operation, and Danvers has nearly completed a plant for the supply of commercial lights.

The towns of Braintree, Danvers, Hingham, Hull, Marblehead, Middleborough, Needham, North Attleborough, Peabody, Reading, Wakefield and Wellesley and the city of Chicopee have now electric-light plants in operation. Of these, Middleborough and Wakefield only have works for the supply of gas. The towns of Needham and Wellesley have distributing plants for street lighting only, and purchase their electricity for this purpose from the Natick Gas and Electric Company. The town of Hingham has a distributing plant for both street and commercial use, but buys its electricity from the Weymouth Light and Power Company.

Pages 44 to 47 contain a tabular statement showing briefly the action taken within the State in relation to the municipal ownership of plants prior to the year 1896.

The pages following contain a carefully prepared history of town action upon this subject during the calendar year; later, in pages 61 to 68, inclusive, appear the financial and other data compiled from the town returns for the year ending June 30, 1896.

Two decisions of the supreme court of Massachusetts, which involve the construction of chapter 370 of the Acts of 1891, commonly known as the municipal ownership law, are inserted in Appendix B.

Tabular Statement showing Action about Municipal Gas or Electric Plants prior to Jan. 1, 1896 — Concluded.

		Votes fa	Votes favorable to Acceptance of the Municipal Ownership Act.	eptance of the	de Municipal	Votes against the Acceptance of the Municipal Ownership Act.	Remarke.
Newton,		Dec.	Dec. 4, 1898,			ı	Three years' contract with local company made in
North Attleborough,	•	June	June 30, 1891,	April	April 16, 1892,	1	1894. Plant built in 1894; cost, \$51,092 56. Formula committee and the second s
Peabody,	• •	June	June 18, 1891,	Aug.	Aug. 20, 1891,	1 1	ravorable committee report ranger April 13, 1032. Plant for electric street lighting started Sopt. 27, 1869. Commercial niant started Nov 10, 1893.
Plymouth,	•		1		,	ı	Total cost, \$58,649.64, to June 30, 1895. Investigating committee appointed 1891.
Reading,	•	Oet:	2, 1891,	March	March 7, 1892,	1	Construction of plant begun in 1894. Cost to Dec.
Spencer,	•		,		ı	Oct. 6, 1891,	
Springfield,	•		ı		1	ı	Favorable vote in city council Dec. 27, 1892, but in- operative because mayor did not approve. Ad-
	-						verse report from investigating committee, 1893. Five years' contract made with local company in
Stoneham,		June	29, 1893,			ı	1694. Subject considered in 1894, but action postponed
Stoughton,	•	April	April 12, 1892, Sune 16, 1892, Sune 29, 1893.	S June	16, 1892, \	ı	Schedule of gas and electric property filed by com-
Taunton,	•	Dec. July	14, 1895, 9, 1891,	Aug.	Aug. 15, 1892.	1 1	Plant of local company taken in 1894, under decree
		•)			of court, for \$144,680. Bonds for \$180,000, authorized to pay for same and for reconstruction, extension and enlargement.

1	Distributing plant for electric street lighting only built, and use begun Dec. 13, 1892; cost \$13,-	Subject indefinite vostroned. March 4, 1889.	Investigating committee appointed 1892. In 1894	this committee discharged and further action re- fused. Proposition indefinitely postponed in 1895.
•	ı	1 1	July 13, 1892,	•
•	8, 1892,	1 1	June 22, 1893,	14, 1893,
	June			Nov.
Dec. 23, 1895,	March 7, 1892, June 8, 1892,	Sept. 10, 1895,	Dec. 30, 1891, March 6, 1893,	Dec. 31, 1892, Nov. 14, 1893,
		· ·		
Waltham,'	Wellesley,	West Springfield,.	Whitman,	Woburn,¹

¹ The votes stated were passed by the city council.

The town of *Belmont*, at a meeting on March 2, adopted the following:—

Voted, That it is expedient for the town to exercise the authority conferred by chapter 370 of the Acts of 1891, by purchasing that portion of the plant of the Somerville Electric Light Company which lies within the limits of the town, or which at the time of its construction was within the limits of the town as then existing.

The vote upon this proposition was: yes, 51; no, 1. At a meeting on August 20 a like vote was adopted: yes, 33; no, 7. The selectmen were authorized to confer with the Somerville Electric Light Company, and take such action as might be necessary to carry into effect the provisions of the vote to purchase. Pursuant to the provisions of chapter 370 of the Acts of 1891, the company on September 18 filed with the clerk of the town a schedule of the portion of its plant within the limits of the town, and an offer to sell the same for the sum of \$15,000. The selectmen and the company have failed to agree on a price, and the latter has petitioned the court to enforce the obligation of the town to purchase such property.

The town of *Braintree*, at the annual meeting on March 24, voted to appropriate \$2,000 for the electric plant and \$200 to light the public library by electricity.

The special committee, appointed by the town to consider the operation of the plant and to see if the expenses could not be materially reduced, recommended various minor additions to the plant and changes in the manner of its operation: the discontinuance of all jobbing work, so far as it pertained to the wiring of buildings; the placing of meters in the town buildings; a minimum charge of not less than \$1 per quarter, exclusive of meter rent; the placing of all customers upon meter basis when present contracts for light expire; that all consumers who do not pay their bills within thirty days of the end of the quarter be cut off; and that "no circuit be established nor lines run for domestic purposes unless the town can be assured of a return equal to 10 per cent. of the investment." On May 5 \$8,052 was voted for street lighting, "this sum being upon the basis of \$66 per year apiece for the equivalent of 122 1,200 candle-

power are lamps, to be lighted all night, upon a moon schedule." It was also voted to appropriate the income from domestic and commercial lighting and jobbing, which, with the amount named for street lighting, was to defray operating expenses and cost of connecting new customers. interest upon the construction notes and bonds, and \$430 the vearly contribution to the sinking fund. The manager was also requested by the town to fix the price at 6 mills per ampere hour, but to use meters whenever practicable, and at other times to make "a careful estimate, so that no contract be made at a lower rate than 6 mills per ampere hour: to charge a profit of 10 per cent, on all jobbing; and make a minimum rate of \$10 per year upon all services." On October 6, \$3,000 was appropriated for the purchase of a new generator and appurtenances. The treasurer was authorized "to borrow that sum for the purpose, and to issue six notes for the sum of \$500 each, one for one year. one for two years, one for three years, one for four years. one for five years and one for six years, from their respective dates, and that the rate of interest shall not exceed 5 per cent."

In Brookline, at a special town meeting in December, the selectmen reported that under the instructions given in October, 1895, they had obtained estimate of the cost to the town of doing its own street lighting; had made application to the Legislature for an act to relieve the town from the burdensome provisions of the municipal lighting acts; and that a moderate bill was passed by the House, but rejected in the Senate. It was voted that the selectmen be authorized "to favor any movement that may be made to relieve cities and towns of the more burdensome provisions of the municipal lighting acts, and for this purpose to appear before the Legislature."

At a special election in the city of Cambridge, on April 28, the following proposition was submitted to the voters:—

Resolved, That it is expedient for the city of Cambridge to exercise the authority conferred upon cities under the provisions of chapter 370 of the Acts of the year 1891 and the acts in amendment thereof and in addition thereto, and thereby to establish and maintain within the limits of said city of Cambridge one or more

plants for the manufacture or distribution of electricity for furnishing light for municipal use and for the use of such of the inhabitants of the city of Cambridge as may require and pay for the same, as in said acts are provided.

Upon this proposition the whole number of votes cast was 3,016, of which 1,180 were yes, 1,829 no and 7 blank; and at a meeting of the board of aldermen, on May 19, the formal declaration was made that the question had been decided in the negative.

The city of *Chicopee* began to operate its electric plant on May 28. From January 1 to that date the plant was operated by its former owners. No appropriation has been made during the year specifically for operation or maintenance of the electric lighting plant; but, under the appropriation for lighting streets, made in December, 1895, the same payments have been made by the city to the manager of electric light as were formerly made to the Chicopee Electric Light Company, to wit, \$75 per light per year. An appropriation of \$3,000 was made to pay the 3 bonds maturing Dec. 1, 1896, and another of \$3,240 for the payment of interest on the 81 bonds outstanding. On July 6 the sum of \$6,000 was appropriated for "extending and introducing the incandescent lighting system to private consumers, and for repairing and extending the arc light mains." To meet this appropriation a loan of \$6,000 was authorized, to be payable in ten years from date, with interest not to exceed A plant for supplying incandescent lights was installed and put in operation for street purposes on May 28, and for commercial use on July 7. The price charged for this service is 11.85 cents per thousand watt-hours. November 2, by vote of the city council, it was required "that the public electric lights be kept burning all night, except upon such nights as the moon may shine brightly, and on such nights the lights to be kept burning during such time as in the judgment of the manager may be necessary for the proper lighting of the streets and public places in the city; and that, upon application to the manager of electric light by any person desiring to have premises owned by him wired for the purpose of lighting the same with electricity, the manager shall cause the said premises to be suitably

wired, and shall furnish all materials and fixtures and labor needed, and shall charge the owner or applicant therefor at the cost thereof to the city." The amount expended upon the incandescent plant to the close of the year was \$10,433.20. At that date there were 66 customers, having 1,489 16-candle-power lamps installed.

At the annual town meeting in the town of *Concord*, held March 30, upon the question, "Is it expedient for the town to exercise the authority conferred in section 1 of chapter 370 of the Acts of 1891, said chapter being an act to enable cities and towns to manufacture and distribute gas and electricity," the vote was as follows: yes, 267; no, 47.

The town of *Danvers*, at a session of the annual meeting, on March 11, appropriated \$1,500 for the payment of electric light notes, and on April 22 the sum of \$11,000 to increase the electric light plant, so as to introduce commercial lighting and add more street lights.

Bonds to the amount of \$11,000 were authorized, to be known as the Danvers electric loan bonds, to be dated June 1, 1896, payable June 1, 1916, with interest semi-annually, at 4 per cent. per annum. At a special meeting, on July 13, the votes passed April 22 were ratified and confirmed, and it was also voted to establish a sinking fund to pay the said electric loan, and "that there shall be contributed thereto an amount raised annually by taxation, sufficient, with the accumulations, to pay the said bonds and interest as they respectively come due."

At the same meeting the town indefinitely postponed a proposition to apply the premium received from the sale of new bonds (\$570.90) to the sinking fund for the electric light loan, and referred to the next annual meeting, by a vote of 7 yes and 1 no, a proposition to elect commissioners for the electric light loan sinking fund.

Pursuant to these votes, a plant for the purposes named above has been installed, containing the following: 1 boiler, 125 horse-power; 1 engine, 160 horse-power; 1 Westing-house alternator, 1,200 light capacity; 1 Brush arc dynamo, with capacity of 45 1,200 candle-power lamps.

New circuits have been run, containing 7,500 feet of wire and 67 poles. The plant was put in operation by the con-

tractors on December 7, but has not yet been accepted by the town, and the new wiring contract is not yet complete. On November 24 the electric lighting committee was authorized to make such extensions of lines to connect with parties already wired or those who may wire in the future for incandescent lighting as the committee may think necessary.

The city council of *Everett*, on February 18, adopted the following:—

Ordered, That the committee on street lights, together with his honor the mayor, the city solicitor and our Representatives to the General Court, be authorized to appear before the legislative committee on cities, and advocate the petition of the city of Everett for electric light legislation now pending.

No report has been made by this committee.

The city council of the city of Holyoke adopted the following, on December 15:—

Ordered, That it is expedient for the city of Holyoke to exercise the authority conferred upon cities and towns by chapter 370 of the Acts of the Legislature of the year 1891, and by acts amendatory thereof or supplementary thereto, and by section 1 of said chapter, relative to the construction, purchase, leasing, establishment and the maintenance within the limits of the city of Holyoke of a plant for the manufacture or distribution of electricity for furnishing light for municipal use and for the use of such of the inhabitants of the city as may require and pay for the same, as provided in said chapter; ordered, further, that, in the opinion of the city council, the city of Holyoke ought to construct, purchase, lease or establish and maintain within its limits one or more plants for the manufacture or distribution of electricity for the furnishing of light, as aforesaid.

This was adopted unanimously in the board of aldermen, the full board being present, and all voting; and in the common council unanimously, seventeen members being present, and all voting; and was approved by the mayor.

In the suit of the Hudson Electric Light Company against the town of *Hudson*, to compel the latter to purchase its plant, commissioners were appointed under the provisions of chapter 370 of the Acts of 1891 to adjudicate as to the property to be taken by the town, and what the price, time

and other conditions of the sale and delivery thereof should be. This commission reported that the town should take the entire plant of the company, with all rights, contracts, agreements and easements in connection with its maintenance and operation, and should pay therefor, on or before the fifteenth day of January, 1897, the sum of \$15,300. This report was confirmed by the court, and a decree was issued, requiring this payment, with the sum of \$323.80 as the taxable costs of the suit.

At a meeting on December 21 authority was given the treasurer "to accept and pay for the conveyance to the town of the plant and property of the Hudson Electric Light Company, according to such terms and conditions as the supreme judicial court for the Commonwealth may hereafter order." The town treasurer was also "authorized and empowered to borrow not exceeding \$20,000, and give the note or notes of the town therefor on such time and at such rate of interest as the treasurer and selectmen shall determine. conformable to the provisions of chapter 370 of the Acts of the year 1891 and the acts in amendment thereof, for the purpose of purchasing, establishing and maintaining an electric light plant within the limits of the said town of Hudson." The proposition to establish a sinking fund to meet and pay indebtedness contracted by this purchase was in-A proposition to adopt by-laws, definitely postponed. under section 11 of said chapter 370, was referred to a committee. It was also voted "that a committee of five be appointed, to ascertain what price could be obtained for the electric light plant if it were sold; to ascertain what land belonging to the town or to private parties is available for the erection of a plant, and the probable cost of such plant when erected; what arrangements can be made with some company already in existence to furnish the town with electric current; and how many and what kind of additional street lamps the town requires; the said committee to report their findings with recommendations at an adjournment of this meeting, not later than Feb. 1, 1897, and as much sooner as possible."

In the town of Hull, on November 24, the treasurer was authorized "to hire on the town note, for one year, with

the approval of the selectmen, the sum of \$2,400, to pay for repairs in the electric-light department."

In the town of Marblehead, on March 23, the municipal light board was authorized to draw orders on the town treasury to pay bills contracted by them for running the department under their charge. A sum not to exceed \$1,500 was appropriated from the receipts of the board for each year, exclusively "for the purchase of meters and transformers and the connecting up of new customers," and it was also voted "that the sum of \$5,000 be and is hereby appropriated for the use of the municipal light board for new construction work and the extension of the electric plant, and the town treasurer be and is hereby authorized to hire said amount, the same to be assessed on the polls and estates of the years 1896, 1897, 1898, and made payable therefrom as follows: \$1,000 in 1896, \$2,000 in the year 1897, \$2,000 in the year 1898."

At the same meeting the municipal light board was made a committee to ascertain the cost of such additions to the present plant as would furnish power for manufacturing purposes. At a meeting on September 28, this committee reported that it was inexpedient to install such plant, and a proposition that \$5,000 be expended for such purpose was rejected, by a vote of 25 to 68.

On December 21, the special commission appointed by the city of Medford to investigate the cost, economy, etc., of a municipal electric-light plant, and report relative thereto, made a report favorable to the establishment of a municipal plant for street lighting and for the supply of private con-The report stated that it was not deemed "wise to submit the matter to the people at the last municipal election," but recommended the appointment of a light committee, with instructions to report "in order that the matter may be brought before the voters at the city election in 1897." report concludes as follows: "Another year may develop improvements in electric lighting of which the committee will avail itself in its report, and which might to some extent conflict with the report of any committee made at this time." Upon this report an order was adopted, and approved by the mayor, on December 30, continuing this committee "in authority, and the powers, duties and personality of the same, regardless of its being of future members of the city council or otherwise, through the municipal year of 1897, or until a report is received and accepted from the same."

The committee appointed by the town of *Methuen*, at the annual meeting in March, 1895, presented a report at the annual meeting in March, 1896, which contained an estimate of the probable cost to install and operate an electric lighting plant. This report contained no recommendations, and no action upon it has been taken by the town.

In the town of *Middleborough*, on March 21, it was voted "to appropriate the sum of \$10,000 to meet deficiency caused by the over-drafts of the Middleborough Gas and Electric Light Commission." The treasurer was also authorized to hire this sum, and "to issue notes, \$5,000 to be paid in the year 1905 and \$5,000 to be paid in the year 1906, the interest to be charged to the account of the Middleborough gas and electric plant." The vote upon the last proposition was: yes, 110; no, 45.

The town of *Needham*, at the annual meeting in March, voted to appropriate \$3,100 for "maintenance of electric-light plant, including interest and maturing bond."

The city council of New Bedford, on October 8, passed the following order:—

That the committee on street lights be authorized to investigate as to the feasibility, cost and any necessary data pertaining to the city's establishing an electric, gas or any other kind of a lighting plant for the exclusive use of the city.

The town of *Peabody*, at the annual meeting in March, made the following appropriations for extension of plant: "For incandescent construction, \$2,000; unexpended balances of the following appropriations to be continued for the current year, to wit, for extension of electric light plant, \$4,669; for arc construction, \$107.55."

The city council of Quincy, on January 13, adopted the following: —

Ordered, That his honor the mayor is hereby requested to petition the Legislature for special legislation that will enable the city of Quincy to establish a plant for municipal lighting alone;

and it is understood that the special legislation required is to enable the city of Quincy to establish a plant for municipal lighting without first buying out the plant of the Quincy Electric Light Company.

The town of Reading, at the annual meeting in March, voted "to raise and appropriate the sum of \$10,000, and appropriate the receipts from lighting and power for the maintenance of the electric light and power plant, and interest on bonds and notes issued for its construction, for the ensuing year." Upon a proposition to borrow the sum of \$9,000 and appropriate \$5,000 of the same to pay liabilities incurred by the municipal light board for the construction of the plant, and \$4,000 for extensions of the commercial and street-lighting systems, it was also voted "that the treasurer be authorized to borrow the sum of \$7.000, and give therefor five notes of the town of \$1.400 each, the first of such notes to be payable in one year from the time when the last one of the notes authorized by the town at the annual meeting for the year 1895 * becomes due, and the remainder of the notes at intervals of one year therefrom; and that the proceeds be appropriated for the expenses of construction and extension of the electric light plant." At a special meeting, on December 1, the town voted "to borrow the sum of \$1,500, giving the note of the town therefor, and that said sum be appropriated for new construction for the municipal electric light and power plant."

In the town of Rockland the committee which was appointed in March, 1895, "to consider the whole subject of electric street lighting, to report at the next annual meeting," reported at the annual meeting in March, 1896; this report was "referred back to the same committee, with

^{*} At the annual meeting, on March 4, 1895, the treasurer was authorized "to borrow the sum of \$7,000, \$1,400 of the principal, together with the interest, to be paid each year for five years," the note to be dated not earlier than Oct. 15, 1895, and the amounts required annually to be assessed in each year without further vote; the money thus borrowed to be used "to complete the incandescent system of commercial lighting and for furnishing power for the use of the town and such of its inhabitants as may desire to purchase it." At the same meeting it was voted to raise and appropriate \$7,000 for the maintenance of the electric light and power plant, and also to appropriate "the receipts from commercial lighting and power for such extensions as the municipal light board may deem necessary."

instructions for further investigation in regard to independent street lighting by the town, to report at the next annual meeting."

On February 17, the city council of Springfield requested the committee on lighting streets "to investigate and report upon the expediency and advisability of the establishment of a municipal lighting plant." No separate report under this request was made by this committee, but in their annual report they referred to the subject as follows:—

While we have made a careful study of this very much agitated question, we do not feel competent, from our limited knowledge of the details of practical electric lighting, to submit a report sufficiently complete to even satisfy ourselves. We believe, if this question is to be seriously contemplated in the future, it should be thoroughly investigated by those having sufficient knowledge of this question to demonstrate beyond a question of doubt that it will prove a safe investment, rather than follow the suggestion of theoretical economists, who argue that, because the local company may make a profitable showing in this business, the city would also be able to do so. We are unanimous in our opinion that it would not be advisable for the city at this time to operate a plant of its own. The demand for this change is less warranted than in most cities that have undertaken it, for the very reason that our contract price is much less than the price paid in other cities, and also less than the average cost to cities furnishing their own lights.

While reports are scattered broadcast throughout the country, showing the advantages and saving to the city under municipal control, it is well to investigate these reports, and ascertain whether they contain a true statement of the facts; whether or not the conditions are the same as exist here, and a comparison of the two would be fair; whether or not the price of coal, a most important item to be considered, is one dollar per ton, or the same as here; also whether these reports all show all that should be charged to this account, such as interest on money invested, depreciation on engines, boilers and electrical machinery, loss of taxes and many other items which must be considered in estimating the actual cost.

Then, again, the laws of our State are such that, should a city decide to do its own lighting, it would be required to purchase the plant from the local company. This we consider a serious restriction.

Could the city, unhampered by any limitations, establish a plant, we very much question whether the cost to the city would be as satisfactory as the present contract price.

No action was taken upon this report.

In the city of *Taunton*, the aldermen on October 7, and the common council on October 22, adopted the following:—

Resolved, That it is expedient for this city to exercise the authority conferred under section 1 of chapter 370 of the Acts of 1891, in relation to the construction, purchase, leasing and using and maintaining within its limits a plant for the manufacture and distribution of electricity for furnishing light for municipal use and for the use of such of its inhabitants as may require and pay for the same.

This was approved by the mayor on November 2. This resolve was adopted by a unanimous vote of the entire board of aldermen, and in the common council by a vote of: yes, 22; no, 0; absent or not voting, 2. This question was submitted to the voters at the annual municipal election on December 8, the resolve being expressed on the ballot in the following words:—

Resolved, That it is expedient for the city of Taunton to exercise the authority conferred upon cities under the provisions of chapter 370 of the acts of the Legislature of the year 1891, and acts in amendment thereof and in addition thereto, and thereby to construct, purchase, lease, use and maintain within the limits of the city of Taunton a plant for the manufacture and distribution of electricity for furnishing light for municipal use and for the use of such of the inhabitants of the city of Taunton as may require and pay for the same, as in said acts are provided.

The vote upon this, as recorded and declared, was: yes, 1,952; no, 1,760; blanks, 701. On December 29 the Taunton Electric Lighting Company filed with the city clerk a schedule of its plant and property, and an offer to sell the same to the city for \$207,000.

In the town of Wakefield, at a meeting on May 12, a proposition to extend the "present system of street lighting by the purchase of a dynamo and other necessary appurtenances, to establish such lamps as may be necessary and to

raise and appropriate a sufficient sum of money therefor," was indefinitely postponed.

The board of aldermen of the city of Waltham, on December 1, adopted the following:—

Ordered, That his honor the mayor be and he hereby is authorized, under section 3 of chapter 454 of the Acts of the year 1893, relative to the establishment of municipal gas and electric lighting plants, to request the Waltham Gas Light Company to make and file with the city clerk a detailed statement of all the property and plant of said company now existing, which said company may propose to sell to the city of Waltham if it shall complete its decision to establish a plant, with the terms of sale proposed therefor.

On December 21 the same board adopted the following:—

Ordered, That the order No. 3778, passed by this board December 1, authorizing the mayor to request the Waltham Gas Light Company to file a schedule of its property with the city clerk with the terms of sale thereof, be and hereby is rescinded, and the mayor is hereby requested to withdraw such request as early as possible.

At a meeting of the board of aldermen, on December 28, the special committee on municipal lighting recommended "that the matter of authorizing the mayor to request the local company to file a schedule of its property be referred to the next board of aldermen," and this recommendation was adopted. At the same meeting the following was offered:—

Resolved, That it is expedient for the city of Waltham to exercise the authority conferred by chapter 370 of the Acts of 1891, entitled, "An act to enable cities and towns to manufacture and distribute gas and electricity;" and of acts in amendment or additional thereto.

The vote upon the motion to adopt this resolution was: yes, 7; no, 10; and the resolution failed to pass.

In the town of West Springfield, the vote on April 6 upon the question, "Is it expedient for the town of West Springfield to construct a plant for the manufacture and distribution of electricity for municipal use or sale?" was: yes, 420; no, 124. In the town of Whitman, on May 25, a ballot was taken upon the following question, viz.: "Is it expedient for the town to exercise the authority conferred in section 1, chapter 370 of the Acts of the Legislature of Massachusetts for the year 1891, to purchase, construct, establish and maintain within its limits a plant for the manufacture or distribution of electricity for furnishing light for municipal use and for the use of such of its inhabitants as may require and pay for the same, as provided in said chapter?" The vote upon this was: yes, 85; no, 56; and the question was declared lost, two-thirds not having voted in the affirmative. On June 27 the vote upon the same proposition was: yes, 97; no, 101. It was also voted to pass over the following article in the warrant:—

Article 3. To see if the town will choose a committee of five to consider the question of electric lighting, to obtain from the General Electric Company the lowest terms for which they will sell their plant, and a complete schedule of their property, including the number of poles set, the number of miles of wire strung, number of dynamos, alternators, tools and appurtenances that comprise the plant, and such other information as they can obtain, and report to the town at a subsequent meeting.

The following table shows the appropriations by the municipalities named on account of their lighting plants during the calendar year 1896, with rate of taxation per thousand for all municipal purposes: --

	TOWN		OR CITY				For Operating Expenses.	For New Construction.	For Payment of Notes or Bonds.	For Interest.	For Sinking Fund.	Bate of Taxation.
Braintree.				, •	•	•	188.252 00	83.000 00	\$2,000 00	-1	2430 00	817.20
Chicopee,	•	•	•	•	•	•	6,106 19	00 000.9	3,000 00	83.240 00		13.80
Danvers, .		•	•	•	•	•	8,700 00	11,000 00	1,500 00	220 00	1	17.20
Hingham.		•	•	•	•	•			1	00 089	1	14.80
Hull.			•	•	•	•		1	3.000 00	\$4.530 00	3.333 00	18.50
Marblehead.	•	•	•	•	•	•		9. 6.600 00	2,000 00	2,400 00	1,000 00	20.20
Middleborough,	zb.		•	•	•	•	•14,500 00	•10,000 00	1,000 00	3,520 00		16.66
Needham.	٠.	•	•	•	•	•			٠	¹	,	12.60
North Attleboroug	rong	يً	•	•	•	•		1	1	2.000 00	90 008	24.00
Peabody.		. •	•	•	•	•		2,000 00	3,000 00	2,075 00	00 008	15.00
Reading.		•		•	•	•		8,500 00		2,520 00	1	15.50
Wakefield.	•	•	•	•	•	•			3,000 00	2.080 00	•	20.00
Wellesley,		•	•	•	•	•		ı	2,000 00	240 00	•	11.00

* In addition to income; \$2,400 of this to be borrowed for special repairs. ' Including income from plant. In addition to unexpended balances of previous appropriations for a like purpose. See page 55. b Including income, estimated at \$11,000. ² Included in appropriation for operating expenses. 4 \$1,500 out of income. ¹ In addition to income.

· Paid by street railway for street lights.

The following table shows the income and expenses for the fiscal year ending June 30, 1896, with plant cost and number of consumers at that date: --

TOWN OR CITY	ĭ.			Total Cost of Plant.	Cost of Land and Buildings.	Operating Ex- penses.	Income from Com- mercial Lights.	Income from Other Sources.	of Customers.
Braintree	•	•			87.679 80	\$ 9.829 24	84.777 31	\$156 48	167
Chicopee	•			79.450 95	24.972 92	1653 53	'		•
Danvers.	•				1,520 90	3.508 21	.,	1	•
Hingham.	•	•	•		1		4.667 53	198 47	121
Hull	•	•			14.310 00		7,804 36	155 75	181
Marblehead.	•		•	77,098 52	26,352 40	9,275 74	8,115 87	96 40	145
14 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			-		\$5,041.55	34.311 92	93,229 19	1	123
Middleborough,	•	•	•	\$ 461,354 79	412,770 55	48,292 12	4.819 33	4245 48	4131
Needham,	•	•	•			2,272 27	. '		
North Attleborough,	•		•		10,123 10	7,199 66	4.016 75	57 02	88
Peabody,	•	•	•		19,111 38	_	3,614 11	44 00	146
Reading,	•	•	•		21,277 52	-	1,117 67	75 08	81
VI 2-1-12					15,980 70	38,145 56	\$10,639 07	J.342 58	\$239
wakenelu,	•	•	•	12 140'84	415,600 43	411,863 27	44,133 56	60.82	66+
Wellesley,	•	•	•		1	3,468 40	111 80	3 12	i
		ļ	_;						
1 Commaned operation	one Me	nerations May 98 1808	ă	No com	No commercial business	7	Ges denoutment	4 Plenting department	rtmont

The following tables are designed to describe the several town plants as of June 30, 1896, and their operations for the year ending on that date: --

TOWN OR CITY.			Number of Bollers.	Total rated Horse-power.	Namber of Engines.	Total rated Horse-power.	Number of Dynamos.	System Used.
Braintree,		<u>.</u>	67	250	81	225	86	General Electric.
Chicopee,	•	•	87	270	,-4	350	~ ~ ~	General Electric.
Danvers,	•		-	80	-	9	. ' ભ	Brush.
Hingham,	•	•	,	,	,	,		1
Hull,	•	-	81	300	တ	495	တ	Westinghouse.
Marblehead,		-	61	260	67	400	~ ~	Western Electric.
Middleborough,*	•		84	180	1	150	co	Thomson-Houston.
Needham,	•		1 •	1 0	10	1 0	10	
North Attleborough,	•	•	-	720 720	24	99	39 -	Thomson-Houston.
Peabody,		-	64	250	83	400	~~	Fort Wavne.
Reading,	•		63	250	83	300	4	Westinghouse.
Wakefield,*	•	-	81	250	83	250	2	Thomson-Houston.
Wellesley,		•	1	1	1	ı		
Current bought of the Weymouth Light and Power Co.	ле Жеуто	ath L	ght and Pow	er Co.	2 Data a	2 Data about electric plant only.	it only.	

Current bought of the Weymouth Light and Power Co.
 Also 2 water wheels, 125 horse-power each.

Data about electric plant only.
 Current bought of the Natick Gas and Electric Co.

		MAXINUM DYNAMO CAPACITY.	MO CAPACITY.			[1	peeq.	i i	10 21 A	-moO a 1 A	elbas
TOWN OR CITY.		Number of Lamps.	Nominal Candle Power.	gns.l LengT ea'l) en!W	Number of	Number of	Length of S with Over Wires (Fe	i to redanti qaral ora	Number Double Lamps.	Number of mercial Lights.	Kominal Co Power.
Braintree,	•	1.600	1,200	308,900	928	82	102,550	1	91	ı	•
Chicopee,	•	2002	1,200	184,800	450	ı	79,200	118	1	ı	1
Danvers,	٠	06	1,200	121,440	265	ı	84,485	2	22	1	,
Hingham, ' Hull:	•	2001	1 42	560,294	1,019	1 -	\$ 124,080 \$ 27,085	1 5	1	١۶	1 5
Marblebead,		200 200 200 200 200 200 200 200 200 200	2,000	345.915	167	- 6	132.000	167	1 1	3 1	000,1
Middleborough,	•	185	1,200	95,480	970	1 10	*88.572	112	1	4	1.200
Needbam,	•	7,000,2	9 1	187,425	490	1	102,960	. 03	;	·	1
North Attleborough,	•	3,000	16	299,631	1,239	17	105,900	8	ı	1	ı
Peabody,	•	2.000	1,200	258,720	410	ı	184,800	ı	162	-	1,200
Reading,	•	1.350	1,200	239,900	973	∞	97,300	4	119	ı	ı
Wakefield,	•	145	1,200	297,624	817	18	009'66	ı	145	ı	ı
Wellesley,	•		י ו	211,200	792	1	103,935	1	ı	ı	١,
Current bought of Weymon	ith Lig	Weymouth Light and Power Co.	30.	* Also 550	eet underg	og puno	Also 550 feet underground conduit containing 950 feet of wire	ng 960 fe	et of wire		

* Also 1,100 feet underground conduit containing 4,800 feet of wire. * Also 1,000 feet underground conduit containing 1,000 feet of wire. • Current bought of Natick Gas and Biscaric Co.

				AVERAGE DURING THE YEAR.	ING THE Y	BAR.		
NAME OF TOWN.	<u>a</u>	Number of Public Lamps.	Nominal Candle-power.	Lamps per Month.	Hours per Night.	Nights per Month.	Coal used (Tons).	Number of Carbons used.
		92	1,200	91-1,200	1	8	170	000 00
Draintree,	<u>~</u>	109	25	108-25	:	0.72	047	000,00
Chicopee,	<u>~</u>	118	1,200	118-1,200	5.1	30.5	1 52	4,500
Danvers	-	38	1.200	81-1,200	0.9	24.7	148	25.500
Hingham.	•	367	82	354-32	5.4	22.5	ı	
Hull,	-	360	32	255-25	2.0	26.2	\$742	662
		164	× 1,200	$\{151-\{1,200\}\}$				
Marblehead	~	10	16		8.7	29.0	634	36.500
		41	22 8	- 43 -				
Middleborough,	•	106	1,200	105-1,200	8.1	25.4	559	61,000
Needham,	•	810 2	288	810-25	7.1	25.0	1	009
North Attleborough.	•	283	35	580-32	5.3	26.0	643	•
Peabody.	•	162	1,200	161-1,200	10.0	30.4	• 477	128,000
Reading,	•	123	1,200	112-1,200	8.9	23.4	847	33,000
Wakefield,		145	1,200	145-1,200	9.0	28:4	1931	45,324
Wellesley,	•	203	22	462-25		_1	1	•
¹ In operation since May 28, 1896 only.	osly :	tons screen	P ug	wood.	4 A L	Also 149 tons screenings	screenings.	;
4 Run at 8.2 amperes to 10.30 P.M., then at 6.8.	MIBO 16	Also 15 tons screenings.		Also 609 tons screenings.	7 AU	Also 1,755 bushels coke.	hels coke.	No record.

ber of Com- rolal Incandes- is Lights. Inal Candle- rer.	rotal Incandes- t Lights. Inal Candle- ver.	var.		nsing Incan- cent Lights.	ber of Custom- using both Arc Incandescent hts.	ber of Custom- naing Power.	Price of Commercial and Domestic Lights.
Mamil Momil Momil Momil Momil Momil Momil Momil Momil Momil	Manual Ma	pow Mumi	8110	geen	ers bns		
8,498 16 167	16		167		ı	~~	6 mills per lamp-hour for 16 c. p. lamps by meter. Customers pay for renewals.
1 .	1	•	'		ı	1	
1			'	_	1	1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	25 { 16 }	~~~	121		1	<u>~~~</u>	20 cents per kilowatt-hour for yearly customers. ³ 25 cents per kilowatt-hour for summer business. ³ Customers pay for renewals.
						~	60 cents per 16 c.p. lamp per month; during months June to September, inclusive, by meter, 1 cent per
. 8 4,337 16 180	16		180		ı	Ť	40 cents per 16 c. p. lamp per month during remainder of year; by meter, 4 cent per ampere hour. Meter rents charged in all cases \$1.75 per year for 10
							and 20 lights, \$2.00 for 40 lights. Are lights \$16.50 each per month.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10 }		145		ı	~	1 cent per lamp-hour for summer residents using more than \$20 worth of current.
		`					14 cents per lamp-hour for those using a less amount. Incandescent electric lights under contracts based on
Middleborough, . 4 2,006 16 127	16		127		,	~	one cent per lamp-hour. Gas, gross price, \$2.75 per M. Discount on bills over \$5.00, 5 per cent. if for
							lighting, 20 per cent. if for fuel or manufacturing. On gas mixed with air.

	No commercial business.	ommo	No o		lighting.	st ready for commercial lighting.	ready for	t ye	1 Not ye	
υυ.	1	'	1	•	•	•	,	•		Wellesley,*
10.	the inteenth of the month, 10 per cent.; if used for fuel, 20 per cent. Coal gas.									:
T	Gas, gross price, \$2.00 per M. Discount on all bills of \$2.00 per month and upward, if paid on or before the \$450 per per the month 10 nor cont if used for								_	•
1 1	\$1.50; 32 c. p., \$2.00. Customer pays for renewals.	Ť	1	66	16	2,000	. 1	•		Wakefield.
T 17T	charge of one dollar; contract rates per lamp per month for 16 c. p., \$1.00: 20 c. p., \$1.25: 25 c. p.									
	by contract according to time burned, from 25 cents to 50 cents per month for each 16 c. p. lamp installed. 1 cent me empere hour law meter. Minimum monthly									ò
DC	cent per lamp hour by meter. By meter a cent per 16 c. p. lamp-hour or 14 cents per ampere hour or 15 cents per kilowatt-hour.		1	ă	4	1 850	I			Reading
)III(cent per lamp hour by meter; if less than \$20 per year, meter rental of \$2. If more than 50 lights, \$									
10,1	Driver yearly contracts: 9 figure of ress, 10 cents each per mo.; 5 to 15, 65 cents each; 15 to 25, 60 cents; 25 or more by special contract. If run only 3 nights per week, 75 per cent. of above rate. House rates ‡	ĭ	-	146	16	1,200	-	•	•	Peabody, .
					32	46				
ر.٠٠	4 cent per 16 c. p. lamp-hour by meter.	ı	1	88	129	536 1,753	•	٦,٠	orougi	North Attleborough,.
10	1	•	1	,	16	787	ı	•	•	Needbam,

			MID- DLEBOROUGH (Oil Gas).	WARRFIELD (Coal Gas).
Gas made (feet), year ending June 6 Gas made (feet), year ending June 8 Gas sold by meter (feet), year ending Gas sold by meter (feet), year ending Gas sold by meter (feet), year ending Gas sold by meter (feet), year ending Gas sold by meter (feet), year ending Gas sold by meter (feet), year ending Gas sold by meter (feet), year ending Gas sold by meter (feet), year ending June 6	ig June 30, ig June 30,	1899,	1,294,049 957,989 1,199,367 937,989	7,313,000 ¹ 8,733,000 ¹ 6,149,100 7,686,460
Gas sold for public lamps (feet), yes Gas sold for public lamps (feet), yes Gas used at works and offices (feet)	ar ending J ar ending J	une 30, 1895, une 30, 1895,	_	45,500
1896, . Gas unaccounted for (feet), year end		·	*-	173,200 990,700 13.55
Percentage unaccounted for, 1896, Percentage unaccounted for, 1895,	: :	: : :	1.36	9.61
For Year ending June	30, 1896.			
Daily capacity of works (feet), .			10,000	75,000 32,200
Greatest output (feet),	: :	: : :	7,172 Dec. 11.	Nov. 20.
Least output (feet),			1,510 March 31.	7,400 July 7.
240,				Gas coal,
Gas materials used,	• •	{	Naphtha, 9,612 gals.	665 tons; gas oil, 1,000gais.
		1	Fuel oil,	(stone
Fuel used,		}	6,600 gals.; coal, 130.6 tons; wood,	-
Total sales of mas (feet)		l	9 feet. 1,199,367	6,149,100
Total sales of gas (feet), Increase over 1894-95 (per cent.),	: :	: : :	27.87	20.00
Average candle-power, . Average price received per M feet sol	ld. 189 5- 96	· · ·	22.6 22 69	17.5 \$ 1.73
Average price received per M feet so	ld, 1894–95		\$3 64 504 006	\$1.70
Gas sold per mile of main (feet), Gas unaccounted for per mile of mai	in (feet),	• • •	504,996	755,418 121,707
Number of consumers per mile of management of consumer (feet),	ain (feet),	• • •	51.8 9,751	29.4 25,728
Gas sold per meter light (feet),	: :		1,179	4,273
Street Mains Length, in feet, of Ba	ch Size, Ju	ne 30, 1896.		
One and one-quarter-inch, One and one-half-inch,	• •	• • •	50	1,000 400
Two-inch,	: :		810	4,333
Three-inch,	: :	• • •	12,180	11,370 12, 32 6
Six-inch,			-	11,044
Eight-inch,	: :	: : :	12,540	2,500 42,973
Length in miles and feet a feet,			1,980	8 733
Increase during the year,	: :	: : :		7,293
Meters Number of Each,	June 30, 1	1896.		
Two-light,			- <u>.</u> .	48
Three-light,	: :	: : :	94 7	126 39
Ten-light,			9 2	11
Twenty-light, Thirty-light.	• •	: : :	1 2 1	5 3
Forty-five-light, Fifty-light,	: :		8	2 3
Kighty-light.	:		-	i
One hundred and fifty-light, . Total number in use June 30, 1896,		: : :	1 123	239
Increase during year,	• •		8	29

¹ For 11 months.

VIOLATIONS OF LAW.

Notices have been sent to the Attorney-General, as required by the statute, of violations of law in the following cases:—

By the Athol Gas and Electric Company and the Amherst Gas Company, in supplying gas containing sulphuretted hydrogen.

By the Adams Gas Light Company, the Amesbury and Salisbury Gas Company, the Brookline Gas Light Company, the Chicopee Gas Company, the Church Green Electric Light and Power Company, the Edison Electric Illuminating Company of Brockton, the Milton Light and Power Company, the Northampton Electric Lighting Company, the Suburban Light and Power Company, the Whitman Electric Company, the General Electric Company, the Winchendon Electric Light and Power Company and the Citizens' Gas Light Company of Reading, South Reading and Stoneham, in neglecting to make the annual returns to the Board within the time required by law.

By the Electric Light and Power Company of Abington and Rockland, in issuing, since the fifth day of July, 1894, sixty-four shares of new capital stock without the approval of the Board of Gas and Electric Light Commissioners, as required by chapter 450, Acts of 1894, and without selling the said shares at public auction.

ACCIDENTS.

In accordance with section 2 of chapter 350 of the Acts of 1888, the Board herewith presents abstracts of the reported cases resulting in death or bodily injuries from gas and electricity manufactured and sold for light and fuel during the year 1896.

The attention of the Board has been called to seventy-six different instances of escaping gas, which have resulted in the death of fifty-one persons and injury to one hundred and eighteen, besides one instance, in which injuries were received by several firemen not included in the above number. This is a large increase over the previous year. From electricity

there have been seventeen cases, resulting in the death of five persons and injury to twelve others.

The Board feel it their duty to call public attention to this increase in the number of accidents from illuminating gas. Many are undoubtedly cases of suicide, and, while others may point that way, a close examination tends to show that some of them were more likely due to imperfect fixtures.

The Board recommends that all gas companies make a thorough inspection of the keys to burners before turning on the gas in any building, and require the keys not only to be in perfect order, but of the kind that stops turning when the gas is turned off.

The laying of street mains in the large cities is sometimes of necessity done in a hurried manner, which must be at the expense of safe and satisfactory construction. When we consider that the lives of residents along the streets are liable to be imperilled from work done in this way, it must be evident to all that too much care cannot be expended upon such work.

FATAL ACCIDENTS FROM GAS.

On the night of January 15 gas from a leak in a main on East Canton Street, Boston, entered the entire block of houses on each side of the street, occupied by about one hundred persons. When found, Hattie May McSwain, eighteen months of age, daughter of Alexander McSwain of 89 East Canton Street, was dead, three aged women were in a precarious condition and twenty-one others were partially asphyxiated. The discovery of the leak was made by John I. Dixon, a tenant of 88 East Canton Street, at 2 A.M. He found his wife and baby unconscious and two other persons in his house were very much overcome. At 89 East Canton Street, Hotel Lawrence, the janitor aroused over forty persons who were overcome by gas, and at number 90 many others.

On the afternoon of February 5, Cassie M. Grant, 39 years old, a lodger at 28 Upton Street, Boston, was found dead in her room, about 4 o'clock. Death was due to asphyxiation by gas. The jet was found half turned on and

the room full of gas. She had apparently been dead for some days; she lay in bed when discovered, and had probably gone to sleep and died without awaking. Her position when discovered and the arrangement of the furniture showed almost conclusively that death was entirely due to accident or carelessness in turning off the gas before retiring.

About 7.30 o'clock Tuesday night, February 4, Frank Parker of Rockland, Mass., registered at the Plymouth House, Boston. He engaged a room and retired for the night. The next afternoon a strong smell of gas was noticed emanating from his room; the door was forced open and the man was found dead in bed. The gas was turned on full force; apparently a case of suicide.

About 9 o'clock on the morning of February 12, James Severance, residing at the rear of 9 Temple Street, Haverhill, Mass., was found dead in his room. When found, his room was full of gas and a stop-cock to the gas jet was found partially open. It was thought to be a case of accident. The man had been drinking, and when he shut off the gas probably did not turn the gas-cock as far as he ought to have done.

About 5 o'clock on the afternoon of February 18, in Lowell, Mass., George E. McCurdy, residing at 65 Hampshire Street, was found dead in bed. The room was full of gas, the cock was turned on full and the doors and windows were closed. It was thought to be an accident, as there was no known cause for suicide.

At 6 o'clock A.M. on the morning of March 3, Clarence Holley, a young man of thirty-five, was found dead in his room at 86 Pinckney Street, Boston. The smell of escaping gas led to the breaking in of the door and the discovery of the body. The gas jet was open. People in the house said that young Holley came home late at night, and that he had been drinking. It seemed probable that in turning off the gas he made a mistake and turned it on again.

Two Finnish evangelists were found in bed Sunday noon, March 8, in a room at Brousseau's Hotel, 200 Friend Street, Boston, in an unconscious condition. Probably they were unaccustomed to the use of gas, and either blew out the flame or unintentionally turned the gas on after it had been

shut off. The proprietor accompanied them to the room and called their attention to the gas jet, lighted the gas and turned it off, showing them how to deal with it, and cautioned them against blowing it out. The smell of escaping gas was traced to their room, and when found they were both in bed and breathing with difficulty. A physician was called, but was unable to resuscitate them, and advised their removal to the City Hospital, where one died the following Monday and the other Tuesday night.

A young man registered by the name of E. A. Napoleon Burr, Springfield, Ill., at the American House, Boston, on the evening of April 1. He was assigned a room, and was found dead the next afternoon. He had filled the room with gas. It was afterwards learned that his name was E. A. Utz; he lived with his parents at 14 Monk Street, South Boston. No cause was learned for his act.

On the night of April 9, N. D. Clark, senior member of the firm of Clark, Hutchinson & Co., shoe dealers, committed suicide at the Copley Square Hotel, Boston, by turning on the gas. It was evident that he had planned deliberately to take his life; the cracks of the door and window had been carefully stopped with towels and parts of the bed clothing.

On the night of April 11, Augustus Warren of South Boston committed suicide by turning on the gas at the Falmouth House, Boston, where he registered under the name of George Lynde. About 9.30 the next morning there was a smell of gas detected coming from the room; the door was burst open, and he was found dead, with burners turned on and the room full of gas. He had provided himself with a bottle of mucilage and paper, and pasted up all the cracks about the door and window of the room.

On the night of April 14, a Mr. Walker, sixty-five years of age, of Chelsea, hired a room in the Eastern Hotel, Boston, and retired. The next afternoon he was found unconscious in the room, having been overcome by escaping gas. He was taken to the Massachusetts General Hospital, and died soon after arriving there. It is supposed to have been a case of accidental asphyxiation.

On the morning of April 18, Hugh McGrail, thirty-eight

years old, employed at the stable of Fuller & Lomasney, 131 Crawford Street, Roxbury, was found dead in the woman's waiting room of the stable. His death was caused by asphyxiation by gas, and is supposed to have been the result of an accident. It is thought he went into the room and hung his overcoat on the gas fixture, thereby turning on the gas, and that he then fell asleep.

Miss Appoline Theriault, who boarded at 67 Branch Street, Lowell, was found unconscious on the morning of April 27 in bed in her room with the gas-cock partly open. She died early on the morning of the 28th, without regaining consciousness.

On the morning of April 30, Ex-Police Sergeant Curtis Trask committed suicide at his home, 37 East Brookline Street, Boston, by turning on the gas. He was found dead about 11.30 A.M. He had been ill for two or three years, and had been rapidly failing in health and was very despondent.

On the morning of May 12, Zeronica Freihart, a young German girl who was employed as a domestic at 66 Monroe Street, Roxbury, was found dead in her bed, having been suffocated by gas. Her death was clearly the result of an accident.

On Tuesday, May 26, Hugo Casse of Holyoke and Emil Englehart of South Hadley went to a lodging-house at 850 Washington Street, Boston, where they occupied separate rooms. Mr. Casse cautioned Englehart to be careful about the gas. The next morning Casse knocked on the door of his friend's room, and got no response; he and the landlord forced the door, and found Englehart in bed, dead. An examination of the gas fixture showed that he had turned the key so that one jet which supplied a gas heater in the room was left wide open.

On Tuesday, June 2, a woman registered at the United States Hotel, Boston, under the name of Mrs. Casey, Brighton Street, Boston, and was assigned a room. At 12.30 p.m. the following day she was found dead in her room, with gas escaping from one of the burners, having committed suicide. She was afterward identified as Lilly Casey, eighteen years old, of Providence, R. I.

On the morning of June 3, Bridget Breen, aged twenty, a domestic at 171 Harvard Street, Dorchester, was found dead in bed, asphyxiated by gas. The stop-cock of the gas jet turned both ways, and she had turned it too far, so as to permit a slight escape of gas.

On July 10, at 1 P.M., Miss Nellie F. Murphy, twenty-three years old, of Exeter, N. H., was found dead in her room in a lodging-house, 63 Hancock Street, Boston. It was evidently a case of suicide. She had occupied this room about a week, and the proprietor, detecting the smell of gas, traced it to her room, where she was found lying on the floor, and the gas escaping in full force from a single burner.

On the night of July 20, Mrs. Margaret A. Wentworth, widow, thirty-five years old, rooming at 221 Harrison Avenue, Boston, was found in her room soon after midnight, unconscious, with the gas escaping from a single burner. She was removed to the City Hospital, where she died about noon of the 21st. It appears to have been an accidental case, as the key of the gas fixture, which turned easily, was only partly turned on. There was nothing about the room or the situation under which the woman was found that would lead to the belief that it was a case of suicide.

About 9.30 o'clock P.M., August 9, Hattie Simmons, seventeen years old, a domestic, was found dead in bed at 34 Wall Street, Boston, where she was employed. She evidently had committed suicide by turning on the gas. One end of a small rubber hose which was fastened to the gas jet was in her mouth, and the gas was fully turned on.

About 7.30 o'clock on the morning of September 1, Miss Emily Robinson, twenty-six years of age, was found dead at her residence, 8 Everett Street, Dorchester, from inhaling gas, presumably with suicidal intent. She had adjusted a piece of rubber tubing to a gas fixture in her room, turned on the gas and inhaled it at the free end of the tubing. She had not been entirely sane for several weeks.

On the night of September 21, James B. Morrison, about forty years old, of Laconia, N. H., a clergyman, committed suicide at the Revere House, Boston, being found dead in his room at about 9 o'clock in the morning, with the gas

turned on. He came to the hotel the evening before and wrote several letters, which left no doubt that it was a case of suicide.

About 10.15 A.M., September 30, George F. Crandall, sixty-five years old, of Newport, R. I., was found dead in bed at the New Marlborough Hotel, Washington Street, Boston. Two keys of the gas chandelier were turned on full. It was presumably a case of suicide, as the keys of the gas fixture were in good condition, and did not turn easily.

About 12 o'clock noon, October 7, Henry Wallace, who had registered at Hotel Alpha, Boston, as of New York City, was found unconscious in his room, with gas escaping from a single burner. A physician was called, but was unable to resuscitate him.

On the morning of October 11, Geo. P. Hunt, seventy-four years of age, was found unconscious in his room, 5 Myrtle Street, Boston, with gas escaping from a gas stove, the burner of which was open. He died soon after from heart failure.

About 12.30 P.M., October 14, Mrs. Nellie Boynton, thirty-six years old, was found dead in her room at 17a Portland Street, Boston, with gas escaping from an open gas jet. It could not be determined whether it was a case of suicide, or not.

On the morning of October 16, James Ross, aged forty-five, who registered from Melrose at the Washington Tavern, Lowell, was found dead in his room, sitting in a chair, his head resting upon a stand, and the gas turned on from the jet situated just over his head. He was under the influence of liquor when he registered, and was brought in by a friend.

About 6.20 A.M., October 22, Mary Morsberg, aged twenty-four, a domestic at 54 Monroe Street, Mt. Pleasant, Boston, was found asphyxiated, having left the gas turned on. She had recently come to the city, and may have been unused to illuminating gas, and perhaps blew out the flame.

About 6 o'clock on the morning of October 27, Mrs. Elizabeth Hart, sixty years old, and her daughter, Mrs. Sarah J. Stevenson, thirty-five years old, were found dead in

bed at their rooms, 25 Broadway Extension, Boston. They occupied separate rooms, and the escape of gas was from Mrs. Hart's room. The gas jet was affixed to the wall, and very near to the regular stop-cock was one which was evidently put there so that a tube could be connected with the gas stove. The two stops were near enough together so that in turning one stop-cock the other might be partly or fully opened. Probably in turning off the gas with one the other was turned on, so that the gas escaped and caused the deaths.

On the afternoon of November 1, Lewis Hoult, who lived in a tenement on the third floor of DeLancey's Block, on Fayette Street, Lowell, was asphyxiated under circumstances indicating suicide. The cap of the gas pipe that protruded from the wall of his bedroom had been removed, and was found lying on the floor immediately beneath the end of the pipe.

On the morning of November 1, Jeremiah Haley of Quincy, Mass., thirty-three years of age, was found dead in a room at 31 Edinborough Street, Boston. Death was from asphyxiation by gas. It was clearly a case of accident, as the gas had apparently been blown out the night before.

About 9.30 a.m., November 2, Albert W. Smith, fifty years old, who was discharged from the Soldiers' Home at Chelsea in May, was found dead in bed at 232 Dudley Street, Boston, with gas escaping in full force from burner. It was evidently a case of suicide, as the windows were tightly closed and stuffed with rags, so that no air could get inside.

About 9.30 A.M., November 12, Wm. J. Knowlton, aged fifty-five, of Boston, was found dead in his room, lying on his bed with his clothing on. The room was full of gas, the key at the fixture was open full and the gas escaping. There was no ventilation in the room, the door and window being closed. Mr. Knowlton had been subject to insane delusions for several years.

About 10 o'clock on the morning of November 13, E. Ambuhl, a travelling salesman, was found dead in bed at the Worthy Hotel, Springfield, Mass. The gas in his room was turned on full head, the door, transom and windows were

shut tight. There was an electric light in the room, so that it was not necessary to use the gas at all. He sent down for an extra blanket at 11 o'clock the night before, complaining of being cold. This would account for the transom and windows being closed. A possible explanation for the gas being turned on was that Mr. Ambuhl got up, and, in trying to turn on the electric light, turned on the gas, which was on the same chandelier, and when he finally found the electric light, forgot to turn off the gas again.

About 6 o'clock on the morning of November 17, the dead body of Mrs. Myrtle E. Jerome, aged about thirty years, was found on the floor of her bedroom, 1185 Washington Street, Boston. The room was full of illuminating gas, which was escaping from a bracket fixture whose key was partly open. Certain written messages found in the room and supposed to be in the handwriting of the deceased indicated that the gas had been turned on with suicidal intent.

About 9 o'clock on the morning of November 15, Eugene Sullivan, sixty-five years old, hostler for Hinckel Brewing Company, 394 Rutherford Avenue, Charlestown, was found dead in his room over the stable. The gas was turned on. It was thought to be a case of accidental death.

On December 5, at 9 A.M., Sarah Lawrence, aged forty-five, her daughter Sophia, aged ten, and Freeman Sawyer, a lodger, aged thirty-five, were found dead in the house which they occupied at 37 Newcomb Street, Boston. Mrs. Lawrence and her daughter were lying in the bed in their bedroom, and Sawyer was in a closet on the lower floor. The house was full of gas, which had entered and at the time of the discovery of the bodies was still entering the premises from a broken gas main in the street. Gas was not used in the house for lighting purposes. Three members of Geo. Curran's family, who lived in the next house, and a boarder named E. H. Thomas, were found under the influence of the gas, but were taken out by the police in season to save their lives.

About 2 P.M., December 7, Roco Genoro, twenty-seven years old, was found dead in bed in his room at Hotel Italy, North Square, Boston, with the gas escaping from the burner.

On the afternoon of December 9, the dead body of Edmund Clark was found in his business office at 2 Shawmut Avenue, Boston. The room contained a large amount of illuminating gas, and there was no ventilation. It appeared probable that the gas came from a defect in the main supply pipe in the cellar.

At about 5.45 A.M., on December 11, the dead body of Elizabeth O'Brien, aged seventeen years, a domestic, was found in her bed in the house where she was employed, at 82 Nelson Street, Dorchester. The room seemed full of gas, and was without ventilation. The body was undressed, in bed, and in the attitude of sleep. The key at the bracket fixture in the room was partly open; it turned somewhat easily, but was in good condition. It did not appear that the girl had any motive for self-destruction, and the conclusion was that she inadvertently let on the gas after once extinguishing it.

About 8.30 o'clock on the morning of Dec. 11, John Bauwneester, a seaman, was found unconscious in his room at the Bay State House, Hanover Street, Boston, with the gas turned on. He was removed to the Massachusetts General Hospital, and died there from the effects of gas poisoning at 11.50 A.M., December 11. It is thought he blew out the gas.

At about 8 o'clock on the morning of December 12, in a bedroom at 47 St. Botolph Street, Boston, the dead body of Samuel P. Putnam, aged fifty-eight years, and alongside of it the dead body of Mary D. Collins, aged twenty years, were found on the floor. They were both dressed. The room was filled with the gas, and had no ventilation. The bracket gas fixture had two keys very near together, one controlling a burner with a tip, the other controlling an open nipple for a drop-light tube. Both keys were open. Gas was escaping freely and with a blowing sound from the open nipple; the other burner was alight. The open nipple was directed downward, and the flow of gas was away from the other tip. The keys were in good condition, and did not open easily. There appeared to be no reason why it should be considered a case of suicide.

About 4.15 on the morning of December 22, a man and woman were registered at the Hampton House, Boston, as Donal Donovan and wife of Concord, N. H. A bell boy discovered a smell of gas which he traced to their room; repeated knocking at the door met with no response, so he entered the room by the fire-escape. The gas was about two-thirds turned on, and the man and the woman lay on the bed, apparently sleeping. On the table was a quart bottle which had contained whiskey, but was nearly empty. The police were at once notified and a physician called, but the woman died before his arrival. The man was unconscious and was removed to the Massachusetts General Hospital.

Early in the morning of December 25, the dead body of a woman named May Henry, aged thirty-five, was found in bed in her room at 25 Warrenton Street, Boston, undressed and in the attitude of sleep. The key of the gas fixture was turned on partly, but not fully. The woman was last seen alive when she went up to her room to go to bed in the evening of December 23. She appeared well at that time, and in happy spirits.

OTHER ACCIDENTS FROM GAS.

At noon, January 10, Mary and Annie Murphy, aged sixteen and fourteen respectively, were found unconscious at their home, 34 Harrison Avenue, Boston. They had been overcome by gas which entered the house from a leak in the gas main in front of the adjoining house. They were removed to the City Hospital. Mrs. Murphy had her windows open until evening, and it was only shortly before the girls came back from the hospital at five o'clock that she closed them. As soon as the free ventilation ceased, the gas again became perceptible. In the corner of the kitchen, in the basement nearest the street, a small hole was discovered, and it was through this that the gas seemed to be making its way. The hole was stopped, and the next morning there was hardly a trace of gas in the house.

About 6 o'clock in the evening of January 14, there was

a gas explosion in the Waverly block, fronting on Warren Avenue and City Square, Charlestown. The building was slightly burned, and the fire department called out. A. De Prato & Brother, who conduct a marble-working establishment, just before 6 o'clock discovered their shop was filling with gas from the basement. A gas pipe which entered the building from the street, was broken just inside the wall. Mr. DePrato and J. A. Gordon, the fireman of the building, went to the spot with a lighted lantern. An explosion occurred immediately. Gordon was thrown back a considerable distance and DePrato was shaken up to some extent. The flames burned both men severely about the face. Their eyebrows and hair were closely singed.

On the evening of January 18, Ralph Goodwin, nineteen years of age, and living at 2 Pine Street, Boston, was found unconscious in his room, having been overcome by escaping gas. The gas-cock was turned full on, and the police were unable to decide whether it was a case of accident or attempted suicide. Goodwin was taken to the Emergency Hospital, where he was soon out of danger. He had been out of employment about two months.

On January 22, three plumbers who were at work putting in pipes at the corner of Station Street and Columbus Avenue, Roxbury, were overcome by the gas. By prompt remedies they soon recovered.

On the evening of January 25, a fire occurred at 6 Ferdinand Street, Boston. The fire melted off the connection to a gas meter, and the firemen were shutting off the gas when an explosion occurred which knocked several of them down. Before they could recover from the shock a second meter in the cellar exploded, and several of the firemen were burned about the face, although not seriously.

On the morning of January 31, Mary Keefe, twenty-three years old, living at 3 Bowdoin Street, Boston, was found in her room in an unconscious condition, the gas being partly turned on. She was taken to the City Hospital, where she recovered.

At about 11 o'clock on the evening of February 6, an un-known couple went to Hotel Italia, 200 North Street, Bos-

ton, and were assigned a room. The next morning about 6 o'clock the watchman noticed a strong odor of gas escaping from the room, and effected an entrance. They were found in bed, both unconscious, and one of the gas jets partly turned on. A physician was summoned, and in a short time restored both to consciousness. It was thought the gas was left turned on by accident.

At about 5 o'clock on the afternoon of February 12, an inmate of the lodging-house at 28 Ash Street, Boston, detected a smell of gas, which was finally traced to the room of a Mrs. Hatfield. The door was forced open, and the woman was found lying on the bed in an unconscious condition. A physician was called, and, after laboring over her for some time, recommended her removal to the City Hospital.

On the night of February 13, an unknown lodger at 174 West Springfield Street, Boston, came in about 9 o'clock in the evening and went to his room. The next morning a smell of gas was traced to his room, which was broken into. He was found upon the bed unconscious and the gas was escaping from every jet in the room. He was removed to the City Hospital. It was undoubtedly a case of suicidal intent.

On February 19, the entire household of Dr. R. B. Dixon of 232 Clarendon Street, Boston, had a narrow escape from suffocation by gas, some members having become unconscious and others more or less under its influence, when the awakening of one prevented further danger. The family consisted of ten persons. Miss Dixon was awakened about 4 A.M., and noticed a strong odor of gas in her room, which was on the fourth floor. She at once notified the doctor, who called the others. One of the little girls he aroused with great difficulty; the two servants were unconscious when found. An investigation disclosed a break in the gas main in the street near the sidewalk.

On March 8, two Norwegian sailors secured lodging at a boarding-house at 200 Friend Street, Boston. The next noon the other inmates of the house detected a strong smell of gas escaping from the sailors' room; the door was forced

open, and both men were found in bed unconscious. A physician was summoned, and the men were removed to the City Hospital. Apparently they blew out the gas.

On the morning of March 17, Captain Manley Smith of Vineyard Haven was found unconscious in his room in the lodging-house 21 Hollis Street, Boston. He was taken to the City Hospital. It was thought he was accidentally overcome by gas escaping from the burner in the room.

At about 10 o'clock on the night of March 17, John Sliney, forty years old, was found in his room at 14 Davis Street, Boston, in an unconscious condition, with the gas turned on full. The doors and windows were tightly closed. He was removed to the City Hospital.

On the afternoon of April 14, the occupants of the house 42 Morgan Street, Charlestown, discovered a strong smell of gas, and traced it to the room of Thomas Watson. The door was burst open, and Watson was found lying upon the bed in an unconscious condition, with the gas turned on. He was removed to the General Hospital.

At 7.15 on the morning of April 20, a young girl residing at 25 Marcella Street, Boston, was unconscious when found in her room, but recovered. She did not understand shutting off the gas, although it had been explained to her.

Shortly after 7 o'clock on the evening of September 12, Rudolph Kramer, forty-five years old, of Rochester, N. H., was found in an unconscious state in his room, Hotel Saville, Cambridge Street, in Boston. A physician was called, who said he had been overcome by illuminating gas, and ordered him taken to the City Hospital. The gas was slightly turned on.

On the evening of September 19, James O'Hara, twenty-seven years old, residing at 8 Allen Street, Boston, on retiring accidently left the gas turned on. The inmates of the house some hours later smelled gas, and traced it to his room. He was lying across the bed in an unconscious condition, and was removed to the Massachusetts General Hospital, where some hours later he regained consciousness.

At about 10 o'clock on the morning of September 24, Albert Manning tried to commit suicide at Hotel Alpha, 21 Green Street, Boston, by turning on the gas. He was found in an unconscious condition and taken to the Massachusetts General Hospital, where he recovered. The cause was supposed to be despondency. He was about thirty years of age.

On the morning of October 2, William J. Crawford of North Dana was found at the Athol House, Athol, Mass., in an unconscious condition, and gas was escaping into the room. A physician was called, and after some time restored him to consciousness. It is supposed that he mistook the gas key for an electric lamp fixture, and, thinking when it did not light that the power was not on, left it open and went to bed.

On the afternoon of October 5, what came near being a a fatal accident occurred at a South End boarding-house, Boston. A young woman occupied a room which was heated by a gas radiator. On returning from a walk she lay down for a nap, and on awakening noticed a strong odor of gas. Upon attempting to rise, she found it impossible. One of the windows had been left open and she was able to reach this, but fainted, and was found there by one of the servants. A doctor was called, who in about two hours was able to restore her to consciousness. An examination showed a small hole in the pipe which supplied the gas.

On the morning of October 11, Peter Shea and his son William, while at work in the mill yard of the Chicopee Manufacturing Company, repairing a leak in the gas pipe, became unconscious. They were helped out of the trench by their fellow workmen and a physician was summoned. They were gradually restored to consciousness, and in the evening were much better. At the time of the accident the gas was shut off from the main, and the trouble must have been caused by that which had been left in the pipes.

On the morning of October 14, John O'Donnell, a lodger at 860 Second Street, South Boston, was found in an unconscious condition, and the gas burner in the room partly open. A physician was called, and after working over him for half an hour was able to resuscitate him. It is thought the gus was left turned on accidentally.

Soon after 8 o'clock on the morning of October 25, Wm. O'Brien, aged thirty-seven years, of Malden, and Mary Kelley, aged thirty-eight years, were overcome by gas in a room of the Oriental House, 280 Friend Street, Boston. A physician was called, and they revived sufficiently to enable them to leave the house.

On the morning of October 27, Wm. H. Low, living on Brown Street, Salem, Mass., was found in a semi-conscious condition from escaping gas. When he retired he thought he had turned off the gas; but about 3 o'clock his roommate came in, and, finding a strong odor of gas, immediately sought to arouse Low. A physician was summoned, who restored him to consciousness. The key to the gas-cock turned half round to turn off the gas and full round to put it on again. Low turned it clear around, and did not know it.

On the afternoon of October 28, Gilbert Putnam, Jr., was burned in an explosion of gas at his new house on Northampton Street, Holyoke. He smelled gas, and tried to find the leak with a lighted match. The leak was in a faulty fixture in his laundry; there was gas enough in the room to cause an explosion. He was badly burned on the hands and face.

On October 31, John Dower was found in a room at his home, 5 Sears Place, Boston, overcome by gas. It is thought he accidentally left the jet turned on. A physician was called, and he was removed to the City Hospital.

Early on the morning of November 22, Richard Pike, twenty-eight years old, a lodger at 49 East Springfield Street, Boston, was found in his room suffering from escaping gas. He went to bed leaving the gas-cock partly open. The odor was detected by another lodger, who burst open the door and found Pike unconscious. He was carried to the City Hospital.

On the afternoon of December 17, Geo. Rigby, a gas fitter by trade, was nearly asphyxiated while at work putting in some piping in a new house at the corner of L and East 7th streets, South Boston. He was discovered in an unconscious condition by one of the men at work in the house at

the time. A physician was called, who restored him to consciousness.

About 10.30 on the morning of December 25, Mary McLaughlin, aged sixteen years, was found in her room at 154 Leverett Street, Boston, in an unconscious condition, due to gas which escaped from defective pipes. She was removed to the Massachusetts General Hospital, and recovered.

On the afternoon of December 27, Wm. H. Gaugh of 7 Howe Avenue, South Boston, was overcome by gas while at work on the head house, Marine Park, South Boston. He was repairing pipes on the second floor, and connecting some of the fixtures. He was assisted to the open air by a companion, and sent to the City Hospital.

On the evening of December 27, the people living at Hotel Pelham, Tremont and Boylston streets, Boston, were disturbed by gas escaping from a broken main in the subway on Tremont Street. Had it not been for the presence of mind of the janitor of the house, there might have been serious results. During the afternoon the odor began to be noticed and steadily increased toward evening. About 11 o'clock a clerk in Klein's drug store was overcome, and the ianitor was sent to alarm the people of the house, and to open windows and doors. A number of the guests of the house were found to be suffering from the effects of the gas. In the drug store it was thought necessary to shut off the gas, to prevent explosion. The elevator boy needed medical attendance, as well as the clerk in the drug store. Many of the hotel guests were obliged to seek quarters elsewhere. The gas seemed to come up from the basement of the hotel, having evidently forced its way through the foundations from the street main. A large force of men was summoned from the gas company, but before relief was obtained it was necessary to shut off the gas from the main.

FATAL ACCIDENTS FROM ELECTRICITY.

On the afternoon of February 11, William S. Goff of North Woburn, a machinist employed in the shop of Lewis Godu, Madison Avenue, Winchester, Mass., was almost instantly killed at the shop, while about to turn on the current to an incandescent lamp. Mr. Goff reached up to turn the button, and as his hand touched the lamp he fell back with a groun to the floor, his hand firmly grasping a portion of the lamp fitting, which he pulled down as he fell. Two physicians were immediately summoned, and pronounced the man dead from an electric shock. His thumb was burned and smoke issued from his mouth soon after he received the shock, indicating that it had caused internal burning, and a half hour later the body turned black. The electricity for the shop was furnished by the Woburn Electric Light Company, and it was claimed that the shop had been wired in a faulty manner, and that two other employees had been severely shocked within a few months while turning lamp switches. After the accident to Mr. Goff it was found that some of the machinery was charged with the current, and about an hour later a fire broke out in the shop. Mr. Goff was about thirty years of age. Upon the inquest, Judge Johnson of Woburn, after reviewing the evidence at length, says: "I find that Mr. Goff's death was due primarily to a defective transformer: that the existence of this defect in the transformer was due to negligence or want of care on the part of those having charge of the business of the Woburn Electric Light Company."

On the evening of April 23, at 11.15 o'clock, at the station of the United Electric Light Company, Springfield, William A. Hayes, a dynamo tender employed by the company, was instantly killed while working in the dynamo room. He was endeavoring at the time to reverse the current on an arc circuit carrying about two thousand volts, and in so doing switched the current through his body.

On July 17, James D. Chisholm, a lineman employed by the New England Telegraph and Telephone Company, was at work on a new telephone cable attached to poles on Boylston Street, corner of Chestnut Hill Avenue, Brookline. He had been using a boatswain's chair, which hung from the suspension wire of the telephone cable, and in some manner received a fatal shock by contact with the wires of the Brookline Gas Light Company, which were attached to the same poles, about three feet below the lowest of the telephone cables.

On the morning of September 26, James H. Hughes. residing on Linwood Street. Somerville, while attempting to leave or enter Music Hall, Boston, by means of the fireescapes, grasped with his right hand the coupling joint of a live alternating electric wire, and received a shock which caused his death. The fire-escape was on the portion of Music Hall fronting the passageway from Bromfield Street. entering between Nos. 38 and 40 of said street. This fireescape is about fifteen feet from the ground; it terminates on the left of the Bromfield Street entrance at a metal roof. and along the front of this roof and set back about a foot from the edge of the same is a small iron fence. There is a stand-pipe about twelve feet from the ground, and about six feet above it is a junction-box, and above that the wires are spliced by a coupling, which it was claimed was not properly taped, and which Mr. Hughes grasped.

On the morning of September 30, Wallace M. Campbell, a lineman employed by the Boston Electric Light Company, Boston, was on a high pole at the corner of Hancock Street, and Cushman Avenue, in Dorchester, when he was seen to suddenly throw up his hands and fall headlong to the sidewalk. An examination of the body showed that the right hand had been burned by the wires. The supposition is that Campbell was in the act of affixing new carbons, when he took hold of some portion of the lamp or line which gave him such a shock that he lost his balance and fell. It is uncertain whether he was killed by the shock, or the fall.

OTHER ACCIDENTS FROM ELECTRICITY.

On January 7, J. A. Littleton, upon going to his safe at 178 Eliot Street, received severe shocks, the safe, through contact with a gas pipe, being connected to electric light wires.

On the afternoon of February 10, John Rafferty, age thirteen years, took hold of a live wire while skating on the "Meadows," at the foot of DeWolf Street, Cambridge, badly burned his hands and was rendered unconscious.

During the storm the previous week, a pole, upon which ran a guard wire of the Cambridge Electric Light Company, was broken, and the wire fell to the ground. Whether Rafferty grasped the wire purposely, or accidentally, is not known.

On the night of February 29, at about 10.45 P.M., Harry A. Bragg, dynamo tender at the Taunton Electric Light Company's station, was injured while changing circuits on the arc switch-board. He was found in a dazed condition, although able to stand, and his hands were considerably burned. He was unable to state just how the accident occurred, and he was alone at the time.

On March 2, at Green Street, corner of Wood's Square, Jamaica Plain, Patrick Sullivan, employed by McHale & Connors, while assisting to remove a guy wire of a derrick, received a shock which caused him to fall to the ground. The guy wire had come in contact with a high-tension electric light wire.

On May 22, C. A. Geiman, a lamp trimmer, while on a lamp pole, corner of Elm Hill Avenue and Cedar Street, Roxbury, removing straw from the hanger board, received a shock causing him to fall to the ground, with a slight burn on one finger. He was badly bruised and shaken up from the fall. The current on this circuit, which was supposed to be dead, was derived from an alternating circuit of the Suburban Light and Power Company, with which it was found to be crossed.

On May 24, Owen Flanagan, while at work in a man-hole on Hawley Street, near Franklin Street, Boston, making connections, received a severe shock and had one hand badly burned. Cause, wrong connections in the man-hole, a wire belonging to an alternating circuit being connected up as an arc wire. When current was turned on the alternating circuit, Mr. Flanagan, who was working on the alternating wire, received a shock and burns.

On the morning of June 1, James E. Vahey, twenty-two years old, a lineman in the employ of the Boston Electric Light Company, was at work installing a transformer on the roof of the building 96 Washington Street, and received a shock by coming in contact with a live wire. He was stand-

ing on the top of a step-ladder at the time of the accident, and, by pushing the ladder from under him, fell to the roof, thus breaking the circuit and removing himself from the electric current.

On June 25, George Woods, aged thirteen, living at 99 Endicott Street, Boston, ascended an electric lamp pole, and upon reaching the top one hand came in contact with the base of the lamp frame and the other with the grounded pole. As a result he received bad burns on his hands and a severe shock which caused him to fall from the pole, breaking his collar-bone and fracturing his skull.

On July 29, James J. Mountain, employed by A. G. Pollard & Co., Merrimac Street, Lowell, Mass., was injured in their store under the following circumstances: an arc light failing to burn, he got up on a step-ladder to fix it, taking hold of a carbon with one hand, and probably touched the metallic part of the switch or the rod of the cash railway with the other, by which he received a slight shock, fell to the floor and suffered severe contusions of the face and brain. There were no indications that he was injured directly by the current, but was badly hurt by the fall.

On the afternoon of September 9, John Glawson, an employee of the Somerville Electric Light Company, while trimming a lamp, received a severe shock. The lamp hung from a mast-arm, from which it could be lowered to the street. The storm had broken one of the alternating current lines and grounded it. This wire was also in contact with the mast-arm. As soon as the man touched the mast-arm lock and weight he received a shock and fell insensible. He soon regained consciousness, however, and was taken home.

On Friday, September 18, at Worcester, Frank J. Geer, foreman in charge of the linemen of the Worcester Electric Light Company, was at work on a pole on Main Street, in that city, and cut a live-arc wire, by which both his hands were very badly burned.

On October 22, John West, an employee of the Boston Electric Light Company, while at work on a lamp in front of 567 Washington Street, received a shock by the back of his hand coming in contact with lead sheath of cable, while one of his fingers was in contact with the blade of the screw-

driver with which he was at work on a live portion of the the lamp mechanism. He was thrown from the step-ladder on which he was standing, and was somewhat injured by the fall.

GAS COMPANIES.

The following table shows the corporate name, the localities supplied, the capital and par value of the shares of the gas companies in active operation on the thirtieth day of June last:—

CORPORATE NAME.	Localities Supplied.	Capital.	Par Value
Adams Gas Light Co.,	Adams,	\$17,300	225
Amesbury & Salisbury Gas Co., .	Amesbury	60,000	100
Amherst Gas Co.,	Amberst,	25,000	100
Arlington Gas Light Co.,	Arlington,	70,000	100
	Belmont,	_	-
,	Winchester,	-	-
Athol Gas and Electric Co.,	Athol,	25,000	100
Attlehorough Gas Light Co., 1	Attleborough,	46,400	100
Bay State Gas Co.,	Boston (in part),	2,000.000	100
Beverly Gas & Electric Co.,	Beverly,	92,000	100
Boston Gas Light Co.,	Boston (city proper),	2,500.000	500
Brockton Gas Light Co,	Brockton,	178,500	100
Brookline Gas Light Co.,	Brookline,	2,000,000	100
	Boston (Brighton, Rox-		i
	bury, South Boston,		1
	and Dorchester Dis-		
C	trict),	#00.000	
Cambridge Gas Light Co.,	Cambridge,	700,000	100
Observations Co. A. Elizabeta Co.	Somerville (in part),	500,000	-
Charlestown Gas & Electric Co., .	Charlestown, .	900,000	50
	Somerville (in part),	-	-
	Medford (in part),	-	-
Chelsea Gas Light Co.,	Everett (in part),	300,000	100
Cuoisea Gas Light Co.,	Chelsea,	200,000	100
Chicopee Gas Co.,	Chicopee Centre	40,000	100
Citizens' Gas Light Co.	1 ~	83,000	100
Citizens' Gas Light Co. of Reading,	Quincy,	35,000	1
South Reading and Stoneham.	Reading,	50,000	100
South receding and Sectionary, .	Stoncham.	00,000	
Clinton Gas Light Co.,	Clinton,	73.000	500
Cottage City Gas & Electric Light Co.,	Cottage City,	25,000	100
Danvers Gas Light Co.,	Danvers.	20,000	50
Dedham & Hyde Park Gas & Electric	2001(0.5)	20,000	••
Light Co.,	Dedham,	100,000	50
	Hyde Park	-	_
Dorchester Gas Light Co.,	Boston (Dorchester		i
	District),	472,000	100
	Milton,	-	-
East Boston Gas Co.,	Boston (East Boston),	220,000	25
Easthampton Gas Co.,	Easthampton,	30,000	100
Fall River Gas Works Co	Fall River (in part),	288,000	101
Fitchburg Gas & Electric Light Co., .	Fitchburg,	150,000	50
Framingham Gas, Fuel & Power Co.,	South Framingham, .	75,000	100
Gardner Gas, Fuel & Light Co	Gardner	28,900	100

¹ Not incorporated.

² Sold principally to other companies.

CORPORATE NAME.		ł	Localities Supplied.	Capital.	Par Value
Glouce-ter Gas Light Co., .	•	Ţ,	Gloucester,	280,000	850
Greenfield Gas Light Co., .			Greenfield,	50,000	50
Haverhili Gas Light Co , .		.	Haverhill,	75,000	50
			Bradford,		1
Ipswich Gas Light Co.,	•	•	Ipswich,	16 000	100
Jamaica Plain Gas Light Co., Lawrence Gas Co.,	•		Boston (Wards 22 & 23). Lawrence,	250,000 590,000	100
Dawlence Gas Co.,	•		Methuen.	330,000	100
			North Andover,	_	-
Leominster Gas Light Co., .			Leominster,	50,000	100
Lexington Gas Light Co., .			Lexington,	30,000	100
Lowell Gas Light Co., .	•		200,	500,000	100
			Dracut,	-	-
			Tewksbury,	-	_
Lynn Gas & Electric Co., .			Chelmsford,	400,000	100
Lynn Gas & Electric Co., .	•	.	Lynn,	±00,000	100
			Saugus;	-	-
Malden & Melrose Gas Light C	o		Malden.	235,000	100
	,		Melrose,	-	_
		- 1	Medford (in part), .	_	-
			Everett (in part),.		
Manufacturers' Gas Light Co.,	. •	•	Fall River (in part),	50,000	100
Marhlehead Gas & Electric Lig	bt Co.,		Marbiehead,	40,000	100
Marlhorough Gas Light Co.,	•	•	Marlborough,	₹0,000	100
Milford Gas Light Co.,	•		Milford,	72,300	100
Nantucket Gas Light Co., .			Hopedale,	36,000	100
Natick Gas Light Co., .	•	: 1	Nantucket,	20,000	100
New Bedford Gas & Edison Lig	ht Co.		New Bedford.	550.000	100
Newburyport Gas & Electric C			Newburyport,	140,000	100
Newton & Watertown Gas Lig	ht Co.,	.	Newton,	250,000	100
_			Watertown,	-	-
		-	Wellesley,	-	-
North Adams Con Tirks Co			Weston,	£0.000	100
North Adams Gas Light Co., Northampton Gas Light Co.,	•		North Adams,	50,000 50,000	2
North Attleborough Gas Light	Ċo.		Northampton,	68,100	100
MOILE Atticoordage Oas Light	OU.,		Wientham,	- 00,100	1
Norwood Gas Light Co., .			Norwood	12,000	100
Pittsfield Coal Gas Co., .			Putsfield,	62,500	100
Plymouth Gas Light Co., .	•		Plymouth,	40,000	100
Roxbury Gas Light Co., .	•	•	Boston (Roxbury Dist.),	600,000	100
Salem Gas Light Co., . •	•	•	Salem,	300,000	. 100
Sunsk Buston Can Links Co			Peahody.	440,000	100
South Boston Gas Light Co., Southbridge Gas & Electric Co	•	٠.	Boston (South Boston),	50,000	50
Spencer Gas Co.,	••		Southbridge,	85,000	100
Springfield Gas Light Co., .	•	:	Springfield,	500,000	100
	•	٦	West Springfield,	-	-
Stonghton Gas & Electric Co.,			Stoughton,	24,000	100
Faunton Gas Light Co., .		.	Taunton.	80,000	50
Waltham Gas Light Co, .		•	Waltham,	140,000	100
Webster Electric Co.,	•	٠ ۱	Webster,	45,000	100
			Dudley,	-	1 .5
Westfield Gas Light Co., .	•		Westfield,	75,000	100
Williamstown Gas Co., .	•	•	Williamstown,	20,000	100
Wohurn Gas Light Co., . Worcester Gas Light Co., .	•	٠	Woburn,	45,100 500,000	100
TO COLUCIO I CAD LIKUL CU	•	• 1	Worcester,	000,000	1 10

The company at Gloucester maintains a wharf and supplies water, and that at Springfield furnishes steam for heating. In addition to these, the companies in Amherst, Athol,

Beverly, Brookline, Charlestown, Chelsea, Clinton, Cottage City, Easthampton, Fitchburg, Lawrence, Lexington, Lynn, New Bedford, Newburyport, Newton, North Adams, Southbridge, Spencer, Stoughton, Waltham, Webster and Westfield, have furnished electric light.

The following table shows the names of the owners of gas works not owned by gas companies, the localities supplied, and the estimated value of the plants:—

Chicopee Manufacturing Co.,			Chicopee Falls,		\$25,000 00
Holyoke Water Power Co.,		•	Holyoke, .		100,000 00
Otis Co	_	_	Ware		10 000 00

The following table shows the whole number of stockholders, the number resident in Massachusetts, and the value of the stock held within the Commonwealth:—

CX)MP.	ANY.				Whole Number of Stockholders.	Number of Stockholders resident in Massachusetts.	Value at Par of Stock held in Massachusetts.		
Adams, .						8	8	\$17,300 0 0		
Ameshury, .						10	10	60,000 00		
Amherst, .		•				37	37	25,000 00		
Arlington, .		•		•		52	40	42,000 0		
Athol,						8	3	2,300 00		
Attleborough,	•	•	•	•	•	22	17	42,000 00		
Bay State, .						4	2	300 00		
Beverly, .						39	39	92,000 0		
Boston, .					•	5	2	1,500 0		
Brockton, .						60	- 5 <u>4</u>	177,000 0		
Brookline, .	•	•	•	•	•	16	6	2,200 0		
Cambridge, .						428	372	623,100 0		
Charlestown,						258	240	467,650 0		
Chelsea, .		•				120	113	287,600 0		
Chicopee, .			:			11	11	40,000 0		
Citizens' (Quinc	y),					8	8	33,000 0		
Citizens' (Readi	ng,	etc.),				45	42	49,200 0		
Clinton, .	•	•				24	24	73,000 0		
Cottage City,	•	•	•	•	•	10	10	25,000 0		
Danvers						18	17	11,950 0		
Dedham, .						35	29	59,650 0		
Dorchester, .	•	•	•	•	•	11	8	470,700 0		
East Boston.						141	118	188,425 0		
Easthampton,	•	•	•	•	•	39	33	25,900 0		
Fall River, .				_		21	12	11,400 0		
Fitchburg.	:	-		:	:	50	45	131,750 0		
Framingham,	•		•	:		20	17	45,500 0		
Gardner				_		14	13	24,900 0		
Gloucester.	÷	-	•	•	:	84	83	77.950 0		
Greenfield, .	:	:			•	35	27	45,150 0		

	сом	PANY.				Whole Number of Stockholders.	Number of Stockholders resident in Massachusetts.	Value at Par of Stock held in Massachusetts.
Haverhill,	•				•	46	41	\$ 71,300 0
Ip sw ich,		•	•	•		16	16	16,000 0
Jamaica Plai	n, .				•	95	89	270,000 0
Lawrence,						235	211	529,100 0
Leominster, .				•		58	55	49,500 0
Lexington,			-		Ţ.	22	21	29,900 0
Lowell,			•		•	281	232	447,400 0
Lynn,	•	•	•	•	•	161	152	
Lynn,	•	•	•	•	•	101	102	887,700 0
Malden						146	125	204,200 0
Manufacture	rs (Fa	ll Riv	er).			7	7	50,000 0
Marblehead.	. (/,	-		28	23	32,500 0
Marlborough			·	•		15	15	50,000 0
Milford,	•	:	•	:	:	56	51	70,700 0
								1
Nantucket, .		•	•		•	47	44	34,700 0
Natick,		•	•	•		21	21	20,000 0
New Bedford						359	826	511,800 C
Newburyport						111	89	114,600 0
Newton,		-	•	-		173	160	236,200 0
North Adams			•	•	·	37	29	48,800 0
T 49 - 4	•	•	•	•	•	43	32	
Northampton North Attleb			•	•	•	37	32	31,200 0
Norwood,	oroug	u, .	•	:	:	4	32	64,300 0 9,333 3
•	-	•	•	·	-		_	•
ittsfield,	•	•	•	•	•	56	42	54,600 0
Plymouth, .	•	•	•	•	•	36	30	30,800 0
loxbury,	•	•	•	•	•	5	8	500 0
alem, .						229	207	286,700 0
outh Bostor						6	- 4	1,600 (
outhbridge,			•			69	65	47,050 0
pencer,		-	•			17	Ĭ7	85,000 0
pringfield,	•	•	•	•	•	126	118	474,600
toughton,		•	:	:	:	6	1.6	24,000 0
		•	•	•	-	115	104	
aunton, .	•	•	•	•	•	110	10-2	75,050 0
Valtham,			•			103	92	127,500 0
Vebster, .		•	•			19	17	32,000 0
Vestfield,						28	25	68,500 0
Villiamstow	n					5	5	20,000 0
oburn.		-		-		42	41	44.600 0
Vorcester,	•	•	•	•	•	193	179	467,500 (

The following statistics exhibit a summary of the financial operations of all the companies in the State, compiled from the items relating to the manufacture and sale of gas in the returns of the last two years made to the Board:—

	FOR YEAR END	ing June 30.
	1895.	1896.
RECEIPTS:		
For gas sold by meter,	\$4,779,821 60	\$ 3,517,061 62
For gas supplied to public lamps,	187,874 48	181,0 6 N
From sales of coke,	168,235 70 107,958 61	181,0 6 84 177,245 36 131,924 78 27,133 24 2,274 22
sales of tar,	107,998 GL	131,921 (6
rent of meters,	22,600 45 2,328 20	27,100 21
rent of gas stoves and engines,	1,213 11	1,828 37
rent of gas lamps,	909 21	611 66
public lamps other than gas lamps,	2,875 48	4,487 19
other sources,	7,071 02	79 40
Total,	\$ 5,280,887 86	\$ 6,043,652 69
Expenses:— 1. Coals,	\$845, 524 85	6000 027 E
O The date one	474,377 84	\$888,057 56 635,322 54
9 Dumifulas materials	32,154 51	33,368 7
4. Water,	20,528 08	21,509 2
5. Wages at works,	396,325 26	453,266 8
6. Repairs and maintenance of works,	206,013 06	453,266 8 256,199 9
7. Apparatus and machinery,	53,008 09	17,192 18
8. Wages of meter takers, clerical labor in dis-		
tribution, and salary or commissions of col-		
lectors,	173,334 99	193,902 70
9. Repairs, renewals, and maintenance of mains	168,943 25	201,736 75
and service pipes,	103,965 88	93,187 2
11. Gas stove fixing, repairs, etc.,	100,000 00	6,428 6
12. Lighting and repairing (gas lamps only),	12,736 95	11,510 6
13. Lighting and repairing, and materials used		•
for other lamps,	3,516 06	4,179 40
4. Directors' allowances,	18,467 52	21,207 10
5. Salaries of officers,	162,890 42	156,693 10
16. General salaries,	123,322 96	125,697 0
7. Rent of offices,	29.524 70	32,607 8
18. General office expenses,	62,058 28	59,912 01
9. Taxes,	271,810 71 18,422 57	291,653 84 29,632 60
	49,479 97	29,473 2
21. Law expenses,	3,888 21	4,417 1
23. Bad debts,	9,933 05	8,464 19
24. Incidental expenses,	18,001 77	33,230 9
25. Gas bought,	512,522 20	610,402 7
Total,	\$3,770,751 18	84,219,254 35
·	\$ 0,770,701 10	Φ1,213,2/1 G
Leaving an apparent net profit on their gas business of	\$1,510,136 68	\$1,824,398 30
They have also received for interest, etc.,	9,606 47	8,338 3
for rents, etc.,	53,215 00	180,066 8
as profits from electric		,
lighting,	204,027 52	211,154 0
Making a total of	\$1,776,985 67	\$2,223,977 50
From these receipts were paid interest on bonds	ļ	
and loans,	\$337,402 76	\$272,942 00 1,087,106 8
Dividends,	1,061,799 92	1,087,106 8
Other items,	664,732 80	505,830 25
	\$2,063,935 48	\$1,865,779 13
Leaving a deficit for the year of Leaving a surplus for the year of	\$286,949 81	\$ 358,198 \$ 4

Three ¹ of the companies appear not to have earned expenses, and twenty-two ² others have not earned sufficient to warrant the declaration of any dividend.

The receipts from gas sold by meter show an increase of \$737,240.02. In the year 1895 an increase was shown over the previous year of \$279,216.11. The increase given for 1896 is the largest of any year since the returns have been made.

Although the quantity of gas sold for public lamps has increased during the year, the income from this source has decreased \$6,867.63, showing an appreciable reduction in the average price of gas supplied for this purpose.

In the appendix will be found, under date of June 30, 1896, the separate balance sheets, profit and loss and manufacturing accounts of the gas companies, as taken from the annual returns, with corrections so far as made by the Board after examination and correspondence with the officers of the several companies.

Aggregates from these balance sheets and those in the returns of 1895 show the following facts:—

								June 30, 1895.	June 30, 1896.
Assets: -									
Real estate, mach	inerv	r. stı	reet r	nains	and	mete	rs.	823,673,337 94	\$24,548,609 51
Cash on hand,		,		•	•	•		350,323 15	354,931 94
Due for gas, .								548,205 88	672,461 92
Other accounts du	ė.							246,676 80	357,431 39
Materials, etc.,								958,557 97	1.141.557 74
Notes receivable.								85.647 47	31,672 61
Investments								554,603 82	
Electric assets,	•	•	•	•	•	•		2,766,023 38	2,866,573 36
								\$29,183,376 41	\$30,452,153 19
LIABILITIES:									' ' '
Capital stock,							•	216,751,500 00	2 16,831,200 00
Bonds.								1,911,180 00	1,936,800 00
Notes pavable,								1,727,387 41	2,958,501 39
Unpaid bills.								492,822 04	607,677 59
Unpaid dividends								20,366 71	24,345 40
Deposits.								32,926 94	34,929 16
Interest due and u	inpa	id.					•	71,652 27	101,407 07
Other items, .	•	•	•	•	•	•	•	819,944 85	111,931 1
								\$21,827,780 22	\$22,606,791 76
Reserved and dep	recia	tion	fund	ls,	•	•	•	551,275 76	681,132 64
								\$22,379,055 98	\$23,287,924 40
Sarplus,	•	•	•	•	•	•	•	6,804,320 43	7,164,228 79
								\$29,183,376 41	\$30,452,153 19

¹ Two last year.

² Twenty-two last year.

Of these companies -

		June 30, 18 95.	June 30, 18 96.
60 show an aggregate susplus of 9 show an aggregate deficit of	:	\$7,313,040 00 508,719 66	\$7,693,915 29 529,686 50
Leaving total net surplus, as shown above, . Which, added to reserves carried as liabilities,		\$6,804,320 43 551,275 76	\$7,164,228 79 681,132 64
Would show an actual surplus of Equivalent to a per cent. on capital of about		\$7,355,596 19 44	\$7,845,361 43 47

¹ Fifty-eight in 1895.

The following table shows the valuation of the property of each company, as assessed by the local assessors:—

COMPANY.	Assessed Value,	COMPANY.	Assessed Value,
Adams,	. \$17,600	Leominster,	\$20,500
Amesbury,	. 18,700	Lexington,	13 867
Amherst,	6,550	Lowell,	1,020,500
Arlington,	35.475	Lynn	452,10
Athol,	. 15,500	Malden,	219,0%
Attleborough,	. 33,000	Manufacturers (Fall River),	55,00
Bav State,	. 1,022,500	Marblehead,	13,80
Beverly,	. 81,200	Marlborough,	52,51
Boston,	. 4,556,800	Milford,	86,400
Brockton,	. 109,700	Nantucket,	6.00
Brookline,		Natick,	14,40
Cambridge,	. 931,300	New Bedford,	694,85
Charlestown,	. 699,400		130.20
Chelsea,	. 313,600	Newton,	387,59
Chicopee Gas Co., .	40,000		34,50
Chicopee Gas Works, .	. 40,000	Northampton,	64,90
Chicopee Falls,	. 10,000		58,10
Citizens' (Quincy), .	. 13,500	Norwood,	11,00
Citizens' (Reading, etc.),	. 30,000	Otis Co. (Ware),	14,25
Clinton,	. 73,700	Pittsfield,	82,90
Cottage City,	. 10,400	Plymouth,	23,35
Danvers,	4,000	Roxbury,	633,40
Dedham,	47,500	Salem,	285,50
Dorchester,	327,000	South Boston,	386,10
East Boston,	. 241,400	Southbridge,	35,20
Easthampton	. 32,000	Spencer,	24,40
Fall River	. 290,100	Springfield,	654,90
Fitchburg,	. 150,000		9,50
ramingham	42,000	Taunton,	65,90
Bardner	. 13,775	Waltham,	318,80
Bloucester,	. 80,000	Webster,	31,80
Freenfield,	29,000	Westfield,	75 00
Haverhill,	. 168,550		6,53
Holvoke,	260,010		51,00
pswich.	5,400	Worcester	674,40
maica Plain,	231,500	1	
awrence	525,000	i	\$19,283,77

² Nine in 1895.

Included in the above are certain companies which have electric light plants, and the following shows the assessed value of such wherever separately returned:—

Amherst,		•		\$5,500	Lynn, .			\$266,500
Athol, .				9,000	Newton,			56,900
Beverly,				39,900	North Adams	١,		15,300
Chelsea,				108,600	Spencer,	•		10,000
Clinton, .				59,500	Waltham,			149,000
Easthamptor	١.			9,000	Webster,			21,500
Fitchburg,				100,000	Westfield,			23,000
Holyoke,				160,000	,			
Lawrence,				90,000	Total,			\$1,123,700

The value of the gas plants, assessed by the local assessors, is then in round numbers \$17,500,000 as there are electric plants at Brookline, Charlestown, Cottage City, Lexington, New Bedford, Newburyport and Stoughton, which are not given in the above table.

The following table shows the amount paid by each company for taxes after deducting the amounts belonging to the electrical departments, and the amount for each thousand feet of gas sold:—

		c	ОМРА	Amount of Taxes pai	Amount per Thousand sold.						
Adams, .								.	\$615	66	20 1409
Amesbury,			•			•		. !	595		0920
mherst,								.	109		1298
Arlington,								.	838	20	1198
thol, .								.	189	42	0396
ttleborough		•	•	•	•	•	•	•	692	81	0646
lay State,								.	20,175	45	0188
								. 1	736	52	0852
			•				•	.	61,216	27	0559
rockton.		•		•				. 1	3,145		1293
rookline,	•	•	•	•	•	•	•	•	23,673		0348
ambridge,								.	20,490	90	1120
harlestown,									7,797	52	0697
			•		•			. 1	4,113		1438
hicopee,							•	. 1	583		0599
itizons' (Qu	incv	١.							419		0518
itizens' (Re			tc.).						620		1694
11	•			·	·	-		. 1	479		0623
ottage City,		:	•	•	•		•		150		0538
anvers.									108	86	0389
edham.					•	•		.	580	50	0811
Orchester,								. 1	5,725	84	0368

	c	OMP	ANY.					Amount of Taxes paid.	Amount per Thousand sold.
East Boston, . Easthampton,	:	:	:	:	:	:		\$5,208 41 349 66	\$0 1125 096
Fall River, .	_		_					6,546 69	063
Fitchburg, Framingham,	:	:	:	:	:	:		1,647 05 640 86	0864 051
Jardnas							1	439 06	0.5
Bardner, . Bloucester, .	:	:	:	:	:	:	:	2,598 42	2573 1115
Freenfield, .	•	•	•	•	•	•		536 77	144
Haverhill, . Holyoke, .	:	:	:	:	:	:	$ \cdot $	3,581 53 1,775 92	0495 0297
								84 32	
pswich, .	•	•	•	•	•	•	• [01 3Z	0387
amaica Plain,	•	•	•	•	•	•		3,947 75	0640
awrence,		•	•					9,632 77	116
cominster, .	•	•	•	•	•	•	•	556 55 100 00	279
exington, .	:	:	:	•	:	•		22,110 08	1820 0756
ynn,	:			:	÷		:	5,086 62	041
dalden, .							.	3,671 38	0650
danufacturers ()	Fall	Rive	r),	•		•	.	976 65	046
darblehead,	•	•	•	•	•	•	•	216 23 829 87	105
farlborough, filford, .	:	:	:	:	:	:		1,545 58	1257 1367
Vantucket, .							.	126 15	0596
latick,	•	•	•	•	•	•		278 78	0873
lew Bedford,	•	•	•	•	•	•	•	4,644 90 1,367 37	0890
Vewburyport, Vewton, .	•	:	:	•	:	:	:	5,844 47	1544 0704
forth Adams,	:						.	547 77	025
forthampton,	:		•	•	•	•	•	1,102 06	0667
North Attleborou	ıgh,	•	٠	•	•	•	:	1,794 22 206 93	1603 052
•	•	•	•	•	•	•	٠,		
itis Co. (Ware),	•	•	•	•	•	•	•	264 27	078
ittsfield, .	•	•	•	•	•	•	•	1,620 62	1069
lymouth, .	•	•	•	•	•	•	.	467 23	1020
toxbury, .	•	•	•	•	•	•	•	9,205 86	0424
alem,					•			5,502 63	1879
outh Boston,	•	•	•	•	•	•	•	5,153 74 318 75	0494 2239
outhbridge, . pencer, .	:	:	:	:	:	:		405 53	0574
pringfield, .		•	•	•		•		7,894 69	0756
toughton, .	•	•	•	•	•	•	•	157 09	2262
aunton, .		•	•	•	•			1,775 44	0429
Valtham, .		•					.	2,462 51	1024
Vebster,	•	•	•	•	•	•	•	153 38	0800
Vestfield, .	•	•	•	•	•	•		1,222 44 206 03	1349 2183
Villiamstown, Voburn,	:	:	:	:	:	:	:	1,079 45	1019
Vorcester, .		•	•	•	•	•		12,712 10	0663
								\$291,653 84	

The total sum paid by the companies for taxes, including state supervision, after apportioning to electric account that part of the gas companies' taxes belonging to their electrical departments, was \$291,653.84, an average of 5.4 cents per thousand feet of gas sold; being an increase over the amount paid the previous year of \$19,843.13 and a decrease of sixtenths cent for every thousand feet sold.

DIVIDENDS.

The dividends declared by the several companies during the year are shown in the following table:—

	c	OMPA	YN	•				Rate per Cent.	Amount of Dividends.	Amount per Thousand sold.
Adams, .				•	•	•	•	1 _	1	_
Amesbury,				•				1 -	1	-
Amherst, .	•	•		•	•		•	6	\$1,500 00	-
Arlington, .	•	•		•	•	•		4	2,800 00	\$ 0 3993
Athol, .				•			•	-	1 =	_
Amesbury, Amherst, Arlington, Athol, Attleborough,	•	•	•	•	•	٠	•	10	4,640 00	432
Bay State, .								10	200,000 00	187
Beverly	:	:			•			8	9,200 00	
Boston.							•	9	225,000 00	205
Brockton								-	1 -	-
Beverly, Boston, Brockton, Brookline,	•	•	•	•	•	٠	•	-	1 -	-
Cambridge.								10	70,000 00	2820
Charlestown.								6	30,000 00	_
Chelses.								4	12,000 00	-
Chicopee.								6	* 1,800 00	1850
Citizens' (Quir	ICY).							-	1 - 1	_
Citizens' (Read	ling).	etc.,						-	1_	_
Clinton	•	•						_	1_	-
Cambridge, Charlestown, Chelsea, Chicopee, Citizens' (Quin Citizens' (Read Clinton, Cottage City,	•	•	•	•	•	•	•	-	1	
Danvers, .			_					24	500 00	179
Dedham.		:	:	:	:	:			1_	
Dedham, Dorchester,	•	•	•	•	:	•	•	-	1	-
East Boston,					•		•	10	22,000 00	4769
East Boston, Easthampton,	•	•	:	•	:	•	•	6	1,800 00	-
Fall River,								10	28,800 00	3679
Fitchburg, Framingham,		•	•					10	15,000 00	-
Framingham,		•		•	•			-	1 -	-

¹ No dividends declared.

² An additional dividend of \$16,057.84 was declared from sale of interest in the electric light plant.

	C	юме	ANY.	•				Rate per Cent.	Amount of Dividends.	Amount per Thousand sold.
Gardner, .					•		•	_	1	_
Gloucester,	•		•					9	3 \$7,200 00	\$0 4108
Greenfield,	•	•	•	•	•	•	. •	-	2,040 00	5493
Haverhill, .		•	•	•				10	7,500 00	1031
Ipswich, .	•	•	•	•				44	720 00	3303
Jamaica Plain,	•						•	10	25,000 00	4051
Lawrence, .								6	35,400 00	_
Leominster,								4	2,000 00	1004
Lexington,								24	750 00	
Lowell, .								12	60,000 00	2067
Lynn, .	•	•	•	•	•	•	•	10	40,000 00	
Malden, .								6	14,100 00	2494
Manufacturers	(Fall	Riv	rer).				•	181	4,000 00	1911
Marblehead,	`.		•			•		1 - 1	1_	
Marlborough,							•	I - 1	1 _	_
Milford,	•	•	•	•	•	•	•	10	7,230 00	6396
Nantucket,								_	1 _	_
Natick.			•					_	1 _	
New Bedford,								6 1	33,000 00	_
Newburyport.						•	•	5	7,000 00	_
Newton, .			•		•			8	20,000 00	_
North Adams,				•				8	4,000 00	_
Northampton,								18	4,000 00	2421
North Attlebor	ougl	1.						6 1	5,448 00	4866
Norwood, .	. `	•	•	•	•	•	•	-	1_	-
Pittsfield, .								12	7,500 00	4949
Plymouth,	•	•	•	•	•	•	•	34	1,400 00	3060
Roxbury, .								41	27,000 00	1245
Salem.	_	_						4	12,000 00	2992
Salem, South Boston,					i			4	17,600 00	1689
Southbridge,			·			:		24	1,250 00	1000
Spencer, .									1,200 00	_
Springfield,					•		·	6	30,000 00	2882
Stoughton,	•	•	•	•	•	•	•	6	1,440 00	2002
Taunton, .								10	8,000 00	1933
Waltham, .					_	_		6	8,400 00	
Webster, .	:	:	:	:	:	:	:	14	675 00	_
Westfield.	:	:		:	:	:	:	72	5,250 00	_
Williamstown,		-	:	:	:	:	:	اغا	1,000 00	1060
Woburn, .	-	-	•	•	:	:	:	6	2,706 00	2553
Worcester,	:	•	•		:	•	:	š	40,000 00	2086 2086
									61 000 040 00	
								-	\$1,068,649 00	-

¹ No dividends declared.

² An additional dividend of three per cent., or \$2,400, was declared from the earnings of wharf property.

⁸ Six per cent. on preferred stock (\$2,000) and four per cent. on common stock (\$48,000).

Malden and Melrose,

Newburyport, North Adams,

Northampton,

PRICE OF GAS.

The following companies reduced the price of gas during the year ending June 30, 1896:—

Beverly, Citizens (Quincy),
Brockton, Easthampton,
Cambridge, Jamaica Plain,
Charlestown, Lexington,
Chicopee, Lynn,

The Citizens Gas Light Company of Reading, South Reading and Stoneham has advanced the price during the year.

The following pages show the price charged by the several companies, June 30, 1896; the average candle-

power, as shown by the tests made by the State inspector of gas; and the average price, per thousand feet sold by meter, received in the two years ending June 30, 1896:—	d in th	•	control in the traditions of the control in the con		
COMPANT.	Average Candle- power.	Gross Price.	REMARKS.	Average Price, 1894-95.	Average Price, 1895-96,
Adams,	20.6 20.3 42.4	800 800 800 800 800 800 800 800 800 800	Twenty per cent. discount, if paid within 5 days from date of bill,	\$2 02 1 70	\$2 02 1 62
Arlington,	18.0	88	per cent.; to \$10, 10 per cent.; to \$20, 15 per cent.; to \$50, 20 per cent.; to \$75, 25 per cent. Oil gals, with 5 to 8 per cent. of air. Discounts: 50 cents per M, if bill is settled within 20 days; 10 per cent. additional	5 2 4 5 8 4 5 8 4 5 8 4 5 8 8 4 5 8 8 8 8 8	5 23 2 49
Attleborough,	16.9	888	to small mills, etc.; 20 per cent. to large mills, etc.; 60 per cent. for gas for cooking, Discount of ten per cent. if paid on or before the 18th of the month,	2888	2 16 1 81 99 6
Boston,	 81 42 85 85		Discount of thirty cents per M, on all bills paid on or before the leth of the month, Discount of twenty-five cents per M, on all bills paid on or before the 16th of the		1 29 5
Brookline,	25.6	84	month, Discount 16 cents per M, if paid within 25 days from date of bill. Large con-		
Charlestown,	19.2	11 38	Discount 15 cents per M, if paid in 15 days, Discounts: 20 cents on bills paid within 25 days; \$1.80 per M to consumers of over 500,000 feet per annum; \$1.50 per M to consumers of over 1,000,000 feet per		28
Chicopes,	18.6	22.0	Annum, Discount Go cents per M on bills paid on or before the 10th of the month. To consumers using 6,000 feet per mouth 76 cents per M discount; special rates to very large consumers. For find 76 cents per M net,	171	

Chicopee Falls, .	• •	•	16.3	88	Discount of 25 per cent. on bills paid within 10 days. Oil gas, with 15 per cent. air,	89	88
Citizens' (Reading, etc.)	etc.),	•	25.1	28	Discounts: if bills paid within 15 days, 20 cents per M; for gas stoves, engines and	2 9	
Clinton,	•	•	17.5	2 00	other mechanical purposes, 40 cents per M,	3 !	9 1
Cottage City,	•	•	1	2 20	\$1 80, with 5 per cent. discount, Discount 20 cents per M, if paid in 5 days. For fuel through separate meter, \$1.20	1 97	1 87
					per M net. During November, December, January, February, March and April, \$1 net per M. Water gas (non-illuminating),	1 62	1 50
Danvers,	•	•	0./1	3	Discounts: On monthly only from \$1 to \$3, 10 per cont; from \$3 to \$8, 20 per cont.; from \$9 to \$24, 25 per cent.; over \$24, 33, per cent.	2 42	2 37
Dedham,	•	•	17.3	28	Discount 20 per cent., for payment before the 16th of the month,	88	8
Dorchester,	• •	• •	18.2	389	Discount 10 cents per M, on bills paid before the 15th of the month,	25	1 2 2
Kasthampton, .	•	•	18.1	8	Discount to large consumers by cents per M; to others 20 cents. For gas stores, \$2.00 net.	8	. 2 18
Fall River,	•	•	87.8	1 70	Discounts: consumers of 1,000 feet or less per month, 10 cents per M; over 1,000 feet and not over 10,000 feet, 30 cents per M; over 10,000 feet, 40 cents per M;		
Fitchburg.	•	•	17.8	8	to mills, 70 cents per M. Discount of 10 per cent for payment on or before the 20th of the month. Large	1 31	1 30
Trement of the m				8	consumers, \$1.75 to \$1.50. For gas stoves, 20 per cent. discount.	1 71	1 76
· temingram)		•	1	3	feet per month, 25 cents per M; 10,000 to 50,000 feet per month, 30 cents per M; 60,000 feet per month, 30 cents per M;	-	
Gerdner	•		60	8	courts per M. Non-illuminating water gas, 10 to 100,000 took per mineral, 20 cents per M. Non-illuminating water gas, 10 to 10	29	88
	•	•	17.8	3 5	10th of the month. Pure oil gas,	4 57	4 57
Greenfield,	• •	• •	16.7	88	On bills of \$2.50 per month, for dwellings 5 per cent discount if paid in 5 days;	2 8	76 7
Haverbill,	•	•	23.4	1 40	on bills of \$2.50, for stores 10 per cent., \$1.00 for fuel, . Discount 10 cents per M, if paid on or before the 26th. Day consumption for	7	7
Holyoke,	•	•	18.1	1 56	188	8	8
					all others if paid within the days after presentation of bill. For gas stores used all the year, \$1.25 net,	1 37	22
Ipswich, Jamaica Plain, Lawrence.	• • •	• • •	25.01 19.50 2.4.01	3 888	Oil grat, 324 per cent. sir. Twenty cents per M discount or all bills paid within 15 days. Twenty cents per M discount ir paid before the fifteenth of the month.	~ % & &	 388

COMPANY.	Average Candle- power.	Gross Price.	REMARKS.	Average Price, 1894-86.	Average Price, 1896-96.
Leominster,	29.7	84 00	Oil gas, with 40 per cent. air. Discount 50 cents per M on monthly bills of 3,000	8	90 06
Lexington,	28.1	9	Discount for payment by the 10th of the month; on bills of less than \$2, 10 per	70 9	
Lowell,	20.0	1188	cent.; \$2 and over, 25 per cent. On gas, with 33s per cent air, . Discount 20 cents per M. if paid within 5 days,	- 1 - 8 - 8	88
Malden,	17.7	1 80	Det. Discount 30 cents per M, if paid by the 20th of the month, To consumers using less than 500 feet per month, \$1.80 per M; using 500 feet and	1 22 1 61	1 18 1 67
Marblehead,	17.5	8	less than 1,000 feet, \$1.70 per M; consumers of 1,000 feet or more per month, \$1.40 per M. To mills, \$1.00 per M. To the city, \$1.25, Discounts: 10 per cent, on monthly bills of \$1 to \$3; 20 per cent, on bills from	1 10	1 09
Marlborough,	16.0	2	\$3 to \$9, and 25 per cent. on bills over \$9, Discounts: 10 per cent. on monthly bills for not less than 1,000 feet, and 20 per		2 42
Milford,	17.2	2 00	cent. when for not less than 2,000 feet; 40 per cent. for fuel purposes, Bills amounting to \$5 per month, 5 per cent. discount; \$10 a month, 10 per cent.;	5 05	
Nantucket,	18 1 16 8	88	\$50 a month, 10 per cent. Net rate to most consumers \$2; to some \$1.50, Discounts: 10 cents per M. if paid on or before the 15th of the month; 20 cents	7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	20 20 20 20
New Bedford,	19.4	1 80	per M to consumers of 4,000 feet, Less than 4,000 feet per month 10 per cent discount; 4,000 feet or over per month 25 per cent. discount for payment by the 10th of the month. Special rate for	1 78	1 76
Newbury port,	17.2	88	power purposes on 50,000 to 55,000 feet per month \$1.10 per M; over 65,000 feet \$1.00 per M, \$1.00 per M, Discontis: 6 per cent. if paid within 10 days,	75 26 28	1 53 1 90
North Adams,	17.1	3 2	for 600 000 feet per year. To some consumers, for mill consumption, special rates,	1 58	
Northampton,	18.0 18.3 16.9	8258	To large consumers, 20 per cent. discount, if paid within 5 days. Discount of 50 cents per M. on bills paid on or before the 16th of the month, If paid within 16 days, discount of 25 cents per M. Public hastuttions, \$1.76.	888	8888

Pittsfield,	•	•	.	83 4.	8	h; 10 per cent. on 25,000 feet or over;	
•	•		•	17.5	200	25 per cent. on bills exceeding 1,000 feet per month if for fael,	171 171 887 1 91
			• •	18.3	38	he 15th of the month; 25 per cent. on	
South Boston, . Southbridge, .				24.6	88		28 1 1 8 1 1 8
						month; 10 per cent. to consumers of over 2,000 feet. Oil gas, with 30 to 40 per cent. air.	83 2 79
Spencer, Springfield, .			• •	19.9 19.3	88	of the month;	-
•	•	•		47.8	2	the month. Pure oil gas 4	86 4 1 40
			•••	17.7	28		- '
• •			•••	16.6	88	reparate meter; also special rates to large consumers, 1 nsumer; for gas stoves \$1.75, 2 asymmet within 7 days, 25 cents per M, if for fuel, 20	-61
Williamstown,	•	•	•	49.2	8	cents if for other purposes, Discount 5 per cent, if paid on or before the 10th of the month; 5 per cent, additional on bills amounting to 85 per month; some large consumers, 85 per M net.	86
•	•	•	•	18.1	1 80	1 0 -	- ۵
•	•		•	0.08	1 40	Discount 16 cents per M, if paid on or before the 16th of the month,	88

The average price paid by consumers for coal gas to the companies selling annually more than 30,000,000 feet each is \$1.12 per thousand feet. If the Boston and Brookline companies be excluded the average is \$1.22. The average price received by the remainder of the coal-gas companies from sales by meter is \$1.68, making an average for all of \$1.17 per thousand. If the amount sold by the Bay State to other companies be included in the computations the average price received by all the companies is \$1.05 per thousand and by those selling annually more than 30,000,000 feet is \$1.00. The average price for oil gas is \$3.93 per thousand feet.

The average price paid for coal gas in 1886 was \$1.72; in 1887, \$1.66; in 1888, \$1.56; in 1889, \$1.45; in 1890, \$1.39; in 1891, \$1.31; in 1892, \$1.38; in 1893, \$1.27; in 1894, \$1.26; and in 1895, \$1.10.

The following table shows the amount of gas made in the year ending June 30, 1896, and in the year ending June 30, 1895; the amount sold by meter and to public lamps in both these years; the amount used at works and offices; with the amount of gas unaccounted for during the year ending June 30, 1896, and the percentage of unaccounted-for gas in both years.

Note. — The terms "coal gas" and "coal-gas companies" whenever used in the report are intended, unless otherwise qualified, to include all the companies except those that make their gas entirely from oil distilled in closed retorts externally fired.

Coal Gas.

Percent- age unac- counted for. 1896.	23.86 13.91 24.79 5.57 9.10	10.62 8.38 16.10 7.16	8.14 23.37 20.10 30.10 19.84 17.91 20.50	21.27 22.81 14.06 10.79	2.0
Percentage unac- counted for. 1896.	. e. 52 2. 4. e. 2. 6. 6. 2.	16.58	7.88.11.88.14.46.21.94.48.18.19.19.19.19.19.19.19.19.19.19.19.19.19.	24.66 19.88 - 15.27 18.88	4.80
Gas unac- counted for. Year ending June 30, 1896.	Feet. 451,850 2,061,350 246,400 1,168,200	937,950 32,692,630 4,918,124 58,590,067	16,112,455 9,480,898 6,341,760 1,364,322 2,324,100 1,028,610 1,426,982 614,600	944,900 1,776,200 - 8,401,795 \$86,700	4,061,020
Gas used at Works and Offices. Year ending June 30, 1896.	Feet. 20,000 213,600 120,200	2,382,937 164,600 2,964,700 600,000 5,116,350	1,191,000 1,145,000 350,000 141,600 173,200 173,200 8,000	246,600 240,800 499,700 73,000	400,000
Gas sold for Public Lamps. Year ending June 30,	Feet. 228,000	52,900 10,896,750 46,029,583	6,840,274 8,206,751 28,890 1,000,000 133,260 684,400	21,780,827	843,361
Gas sold for Public Lamps. Year ending June 30,	Feet. 272,250	9,983,770 46,738,493	6,316,045 7,925,667 27,669 1,000,000	23,548,900	706,780
Gas sold by Meter. Year ending June 30, 1895.	Feet. 4,398,800 6,163,830 6,199,800 8,739,200 10,450,000	876,786,103 7,923,000 1,007,276,700 21,127,600 422,880,500	158, 663, 600 88,214, 664 27, 888, 750 8, 128, 480 5, 700, 900 6, 366, 000 2, 008, 900	2,674,600 5,551,800 92,775,300 86,400,400 8,238,400	67,561,400
Gas sold by Meter. Year ending June 30, 1896.	Feet. 4,867,400 6,190,400 7,012,200 4,796,500 10,730,600	11,068,756,960 8,590,500 1,084,741,600 24,327,600 643,872,090	177,668,900 94,004,632 28,704,250 9,702,400 1,003,800 8,661,800 7,607,600 2,108,900	3,791,200 7,157,600 134,286,600 89,498,600 8,558,900	77,585,000
Gas made. Year ending June 30, 1895.	Feet. 5, 794, 600 6,237, 600 8,358,200 4,200,400 11,638,000	877,878,000 9,085,700 1,057,406,100 25,808,900 518,146,400	174,422,600 104,651,800 86,877,000 10,170,290 9,900,175,510 5,182,610 7,974,700	8,420,200 7,844,000 114,777,627 61,408,000 8,702,920	68,280,900
Gas made. Year ending June 30, 1896.	Feet. 6,906,500 9,166,750 6,256,000 12,011,000	1,071,236,000 9,742,100 1,130,189,700 29,740,200 758,824,000	119, 486, 300 112, 511, 087 35, 376, 000 11, 526, 000 10, 564, 500 4, 606, 310 9, 318, 300 3, 412, 500	3,833,100 9,185,500 1,188,068,300 65,016,000 4,219,600	82,777,900
COMPANY.	Adama,	Bay State,	Cambridge, Charlestown, Chelsee, Chiczes, Chitzens' (Quincy), Chitzens' (Gading, etc.), Glinton, Cottage City,	Danvers,	Fall River,

1 8,049,400 to private consumers, 1,065,706,560 to other companies.

Coal Gas - Concluded.

COMPANY.	Gas made. Year ending June 30, 1896.	Gas made. Year ending June 30, 1895.	Gas sold by Meter. Year ending June 30, 1896.	Gas sold by Meter. Year ending June 30, 1895.	Gas sold for Public Lamps. Year ending June 30, 1896.	Gas sold for Public Lamps. Year ending June 30, 1805.	Gas used at Works and Offices. Year ending June 30, 1896.	Gas unac- counted for. Year ending June 30, 1896.	Percent. age unaccounted counted for. 1896.	Percentage unse- counted for. 1895.
Gloucester,	Feet. 24,179,100 4,341,800	Feet. 23,716,600 4,034,600	Feet. 22,899,100 8,713,700	Feet. 21,484,800 8,288,700	Feet. 972,000	Feet.	Feet. 125,000 78,900	Feet. 676,200 581,600	2.80	16.94
Haverhill,	80,655,000 68,625,000	76,105,000 60,841,500	69,883,900 59,540,700	64,875,500 52,066,600	2,898,800	2,860,200	700,000	7,180,300	8.90	8.93 12.70
Jamaica Piain,	70,011,800	68,274,900	44,499,500	86,822,800	17,222,189	16,286,789	180,000	7,982,028	11.40	14.84
Lowell,	89,386,800 \$15,073,000 137,484,600	80,101,800 267,250,000 116,041,100	82,355,226 285,897,100 123,636,700	72,456,405 247,488,600 104,261,300	136,824 5,755,300	123,939 6,906,400	1,077,200 2,668,900 2,109,000	6,807,049 20,232,700 11,668,900	6.50 8.48 8.48	8.16 4.49 8.45
Malden, (Fall River), Manufacturers (Fall River), Marblebead, Marborough, Milford,	68,888,800 23,250,500 8,591,300 8,086,700 13,668,990	67,750,000 18,473,400 4,586,700 7,963,400 11,862,480	56,505,100 20,831,700 2,040,800 6,604,100 11,286,800	47,260,300 16,491,200 2,814,492 6,448,600 9,721,800	19,200	24,200 144,000 316,984 18,000 363,000	482,000 213,100 203,900 230,000 06,000	11,868,900 2,106,800 1,344,700 1,274,600 2,288,190	17.22 9.06 87.44 15.76	17.42 9.86 27.91 10.07
Nantucket,	2,702,670 8,650,600 57,534,100	2,708,680 3,528,200 50,565,300	2,108,000 8,113,900 46,391,200	2,084,400 3,145,600 40,101,300	78,000	76,500	38,000 45,000 285,600	555,670 440,700 4,279,598	20.56 12.07 7.44	21.38 7.27 7.86
Newburyport, Newton, North Adams,	10,403,990 86,114,000 26,721,800 19,206,500	9,026,640 78,778,700 22,480,800 17,209,200	8,856,100 74,897,000 21,036,700 16,520,000	7,707,400 63,805,000 19,015,800 14,063,100	8,454,000	7,421,900	200,000 288,000 100,000	1,198,890 8,010,000 4,160,000 2,568,00	11.62 8.50 16.17 18.31	13.07 6.60 12.71 18.25
Norwood,	14,200,000	10,012,000	3,424,700	2,673,300	642,082	607,158	1 -	1 -		
Otta Company (Ware),	5,547,422	6,227,526	8,340,400	2,960,000	7,860	9,678	006'99	419,263	7.88	9.16
Pittefield,	16,693,000	14,960,000 4,906,710	15,156,900	13,428,000	1 1	1.	225,000 115,500	1,311,100	3.71	7.04
Roxbury,	9219,963,560	181,415,476	214,730,000	172,999,600	2,162,909	8,608,896	045,500	2,360,151	1.01	3.68

0.05,204 7,884,164 289,100 1,837,096 10.08 135.04 465,300 580,900 888,200 10.07 9-44 465,300 880,900 8,005,200 4,65 6.09	3.16 1,481,600 1,416,000 562,400 1,913,000 4.36 3.16	871,000 941,600 512,400 2,956,000 10.75 14.86 185,383 185,383 106,700 824,287 10.15 1,085,100 2,081,700 962,400 10,928,000 6.87 6.91		- 11,404 17,487 6,000 1			60,900 44,402 10,000 0.90		75,000 265,990 11.36 12.25 20,000 117,600 17.11 10.41
66,383,700 7,076,9 6,785,800 6,148,440 455,3	36,839,500 1,431,6	18,786,400 871,0 1,906,500 - 7,831,600 188,8 9,882,850 - 156,459,600 2,096,1	Oil Gas.	816,276	1,158,460	786,900	1,778,800 60,9	1,826,490	
40,113,300 97,144,600 7,061,400 108,664,800	89,962,000	23,170,500 1,916,300 8,925,700 10,560,400		886,238	1,278,400	1,706,100	2,118,800	1,991,965	
42,462,000 76,450,000 7,893,900 103,934,000	40,084,000	23,519,400 2,258,100 9,011,200 10,643,600 169,402,000		1.	3,026,436	:	1,843,226	2,152,880 598,260	
46,473,000 \$106,910,000 8,829,400 110,030,000	43,864,000	27,490,900 2,624,600 10,007,000 11,480,800 203,789,000		1.	3,121,428		2,191,700	2,323,480	
• • • •	•	••••		•	•	•	•	• •	
• • • •	•	• • • • •		•	•	•	•	• •	
• • • •	•	• • • • •		•	•	•	•	• •	
Salem, Gouth Boston, Spencer, Springfield, .	Taunton,	Waltham, Webster,		Amberst,	Chicopee Falls,	Gardner,	Ipswich,	Leominater, Lexington,	

2 Gas bonght.

s Quantity used in mills of company unknown.

1 Quantity not given.

The following table shows the daily capacity of the several works, June 30, 1896, and the greatest and least day's output during the year ending with that date, for each of the companies:—

COMPANY.	Daily Capacity of Works.	Greatest Output.	Date.	Least Output.	Date.
Adams,	150,000	1_		1_	
Amesbury,	100,000	44,000	Jan. 24,	10,000	Aug. 3. July 2.
Amherst,	8,000	6,000	Dec. 10,	600	
Arlington,	500,000	42,530	Jan. 9,	9,970	Aug. 1.
Athol,	75,000	36,700	Nov. 25,	4,900	June 3.
Attleborough,	100,000	57,000	Dec. 13,	21,000	Aug. 5.
Bay State,	4,000,000	4,912,000	Jan. 6,	565,000	July 4.
Beverly,	50,000	47,500	Jan. 24,	12,200	
Boston,	6,000,000	<i>5</i> ,255,000	Jan. 6,	927,000	July 21.
Brockton,	100,000	135,686	Dec. 24,	31,086	July 21.
Brookline,	4,500,000	3,503,000	Jan. 6,	968,000	July 21.
Cambridge,	1,000,000	909,606	Jan. 7,	226,800	
Charlestown,	800,000	608,000	Jan. 6,	140,000	July 7.
Chelsea,	250,000	163,000	Dec. 24,	45,000	July 21.
Chicopee,	150,000	69,200	Dec. 30,	13,500	Aug. 5. July 8.
Citizens' (Quincy), .	70,000	41,100	Dec. 18,	15,700	
Citizens' (Reading, etc.),	250,000	16,000	Dec. 24,	2,700	July 7.
Clinton,	90,000	58,100	Jan. 10,	9,300	Aug. 5.
Cottage City,	60,000	32,000	Aug. 21,	1,900	Dec. 20.
Danvers,	30,000	22,998	Dec. 3,	3,296	
Dedham,	75,000	47,900	Dec. 2,	7,400	June 11.
Dorchester,	300,000	678,000	Jan. 6,	239,000	July &
East Boston,	400,000	240;961	Dec. 24,	78,937	June 21.
Easthampton,	30,000	37,950	Nov. 27,	3,860	July 8.
Fall River,	500,000	448,800	Jan. 3,	85,600	July 7.
Fltchburg,	150,000	103,800	Dec. 24,	22,900	July 21.
Framingham,	250,000	57,000	Dec. 24,	14,200	May 3.
Gardner,	18,000	_	_	_	_
Gloucester,	180,000	121,500	Dec. 24,	24,200	May 10.
Greenfield,	60,000	20,300	Dec. 8.	5,500	May 11.
Haverbill,	400,000	863,000	Dec. 13,	94,000	Aug. 4.
Holyoke,	500,000	420,189	Dec. 2,	70,211	July 7.
		17,000	Dec. 28,	1,500	July 4.
Ipswich,	-	11,000	Dec. 20,	•	
Jamaica Plain,	500,000	296,002	Dec. 11,	98,094	Aug. 4.
Lawrence	1,000,000	488,115	Dec. 2,	89,479	July 7.
Leominster,	30,000	13,405	Feb. 7,	2,930	June 17
Lexington,	20,000	-	I		"
Lowell,	2,000,000	1,630,000	Nov. 25,	343,000	July 21.
Lynn,	700,000	592,500	Dec. 24,	175,300	July 21.
Malden	315,000	325,000	Dec. 31,	95,300	July 28.
Manufacturers (Fall	,	•	1 Í	'	
River.	200,000	212,000	Feb. 6,	27,800	June 22.
Marblehead.	40,000	13,600	Feb. 17,	5,000	May 24.
Marlborough,	150,000	49,400	Jan. 11,	6,600	June 19.
	80,000	68,870	Dec. 3,	14,980	July 21.

¹ No record.

COMPANY.		Daily Capacity of Works,	Greatest Output.	Date.	Least Output.	Date.
Nantucket,	•	30,000	14,830	Aug. 3,	3.620	April 21.
Natick		85,000	19,100	Nov. 27.	1,400	Sept. 9.
New Bedford.		600,000	248,900	Dec. 23,	75,000	Aug. 4.
Newburyport, .		100,000	57,110	Dec. 26.	9,740	July 7.
Newton,		500,000	384,500	Dec. 14.	100,600	June 30.
North Adams.		175,000	106,700	Dec. 19.	32,700	Aug. 5.
Northampton, .	-	140,000	95,775	Nov. 24.	20.331	July 20.
North Attleboroug	h, .	110,000	67,000	Dec. 2,	10,400	May 10.
Otis Company (We	ure),	70,000	83,907	Nov. 26,	6,230	July 7.
Pittsfield		240,000	66,000	Jan. 8,	22,000	June 21.
Plymouth,	•	65,000	24,000	Dec. 5,	8 ,3 30	July 4.
Roxbury,	•	500,000	993,000	Jan. 6,	356,000	July 21.
Salem		330,000	205,300	Dec. 24,	47,200	July 8.
South Boston		425,000	426,000	Jan. 7,	145,000	July 7.
Spencer	•	125,000	37,000	Dec. 11,	11,100	May 26.
Springfield.	•	1,500,000	455,000	Jan. 7,	162,000	Aug. 11.
Stoughton,	•	10,000	- '	- `	-	_
Taunton,		300,000	235,000	Dec. 12,	62,000	June 21.
Waltham		500,000	128,000	Nov. 25,	28,500	July 7.
Webster		24,000	12,600	Dec. 4,	2,100	Aug. 29.
Westfield,	.	70,000	51,600	Dec. 3,	11,900	Aug. 12.
Williamstown, .		24,000		- '	_	
Woburn	•	80,000	59,000	Jan. 6,	20,000	July 4.
Worcester,		1,700,000	936,000	Nov. 26.	206,000	July 21.

The following tables show the total quantity of gas sold during the year ending June 30, 1896, the percentage of increase in sales over the previous year; the capital (including bonds) per thousand feet sold, omitting those companies which have electric light plants; the average price received for all gas sold during the year ending June 30, 1896, and the average price the year previous:—

Coal-gas Companies.

COMPANY.		Total Sales of Gas.	Increase over 1894-96 (per cent).	Capital per M sold, includ- ing Bonds.	Average Price received per M sold, 1895-96.	Average price received per M sold, 1894-06.
		Feet.				
Adams,		4,367,400	00.61*	\$3.961	\$ 2 02	\$ 2 02
Amesbury,		6,462,650	20.08	9.284	1 64	1 71
Arlington,	•	7,012,200	13.10	9.983	2 49	2 49
Athol,	•	4,796,500	28.62		2 15	2 26
Attleborough,	•	10,730,600	2.68	4.324	1 81	1 82
Bay State,		1,068,755,960	21.90	1.871	1 99.6	99
Beverly,	:	8,649,650	8.45	_	1 94	2 04
Boston,		1,094,675,370	7.51	2.508	99.3	99.7
Brockton,		24,327,600	15.15	11.448	1 54	1 86
Brookline,	•	690,110,583	46.86	-	96.8	99.7
Cambridge,		182,979,845	15.08	3.826	1 26	1 35
Charlestown,	•	111,930,189	22 43		i 17	1 35
Chelsea	•	28,704,250	3.13	_	1 69	i 71
Chicopee	:	9,730,068	19.28	3,597	1 54	1 62
Citizens' (Quincy),	•	8,093,300	19.71	8.824	1.87	2 00
Citizens' (Reading, etc	٠١. ٠	3,661,800	11.54*	34.764	2 25	1 92
Clinton.	-,, .	7,697,500	20.92	_	1 87	1 97
Cottage City,	•	2,797,900	4.08	-	1 38	1 39
Danvers,		2,791,200	4.36	7.165	2 37	2 42
Danvers,	•	7,157,500	28.92	15.159	2 03	2 03
Dorchester,	:	157,834,500	37.78	2.991	1 00	1 25
•						
East Boston,	•	46,126,578	6.29	4.770	1 49	1 48
Easthampton,	•	3,558,900	9.90	-	2 13	2 50
Fall River		78,291,780	34.05	3.679	1 30	1 31
Fitchburg,	:	19,030,700	14.12	_	1 72	1 74
Framingham,		12,563,100	2.48	13.797	2 58	59
Gloucester		23,371,100	3 55	3.423	1 41	1 39
Greenfield,	:	3,713,700	12.92	13.733	2 22	2 22
·	•	, ,				
Haverbill,		72,782,700	7.55	1.429	1 30	1 30
Holyoke,	•	59,743,792	14.24	-	1 33	1 37
Jamaica Plain,		61,721,689	16.22	4.780	1 57	1 60
Lawrence,		82,491,049	13.66	_	1 31	1 36
Lowell,	·	291,652,400	15.10	1.714	1 01	1 00
Lynn,		123,636,700	18.58	-	1 18	1 23

^{*} Decrease. ¹ From sales to general consumers only.

³ Non-illuminating.

COMPAN	r.	Total Sales of Gas.	Increase over 1894-95. Per Cent.	Capital per M sold, includ- ing Bonds.	Average Price received per M sold, 1895-96.	Average Price received per M sold, 1894-96.
Malden, Manufacture	ra (Pali	Feet. 56,524,300	19.54	\$5.042	\$ 1 5 7	\$ 1 61
River),		20,929,100	25.81	2.389	1 09	1 10
Marblehead		2,040,800	34.81*	22.785	2 45	2 28
Mariborough		6,604,100	2.13	12 624	2 04	2 05
Milford,		11,303,800	12.08	6.396	1 84	1 83
Nantucket, .		2,108,000	1.13	17.552	2 02	2 01
Natick		3,191,900	0.94*	8 929	1 75	1 78
New Bedford, .		52,199,507	14 06	-	1 54	1 56
Newburyport, .		8,856,100	14.90	-	1 90	198
Newton,		82,851,000	16.32	-	1 53	1 59
North Adams, .		21,236,700	10.30	-	1 50	1 58
Northampton, .		16,520,000	17.43	3.027	1 58	1 87
North Attleborou	gh, .	11,146,200	3.19	7.667	2 00	2 00
Norwood,	• •	3,966,782	20.92	7.411	2 07	2 00
Otis Company (V	Vare), .	3,348,250	12.75	-	2 00	1 99
Pittsfield,		15,156,900	12.87	4.124	1 71	1 71
Plymouth, .		4,583,100	8.41	8.728	1 91	1 87
Roxbury,		216,892,909	23.51	2.763	99.8	1 00
Salem,		40,113,300	11,30	7.479	1 60	1 59
South Boston,		104,219,804	42.83	4.222	1 00	1 22
Spencer,		7,061,400	4.06	-	1 60	1 60
Springfield, .		104,110,100	7.62	5.379	1 40	1 40
Taunton,		41,393,600	8.20	1.933	1 47	1 47
Waltham,		24,041,500	21.87		1 61	1 68
Webster,		1,916,300	.57	-	2 36	2 29
Westfield,		9,059,033	13.74	l –	1 91	1 97
Woburn,		10,590,400	12.88	4.259	1 58	1 57
Worcester, .		191,706,000	20.92	3.130	1 25	1 29
·		I	l	1	l	1

Oil-gas Companies.

•		846,642 1,278,400 1,706,100	01.67 10.35	- -	\$5 23 3 00	\$5 26 3 13
•		1	10.35	-	3 00	3 13
•		1 706 100				
		1,,00,100	-	\$27.094	4 57	4 57
•	\cdot	2,179,700	10.55	11.011	3 06	8 05
:	:	1,991,965 547,700	9.06 6.15	25.101 -	3 85 5 08	3 82 5 40
•		1,423,570	5.64	-	2 79	2 83
•		697,650	1.61	-	4 87	4 86
	\cdot	943,600	13.07	33.595	5 43	5 38
	•		547,700 1,423,570 697,650	547,700 6.15 1,423,570 5.64 697,650 1.61	547,700 6.15 - 1,423,570 5.64 - 697,650 1.61 -	. . 547,700 6.15 - 5 08 . . 1,423,570 5.64 - 2 79 . . 697,650 1.61 - 4 87

[•] Decrease.

The following tables show the capital (including bonds), the gas sold, the gas unaccounted for, and the number of consumers per mile of main; also the gas sold per consumer and per meter light. Where capital is employed for both gas and electric light, the amount per mile of main is omitted.

Coal-gas Companies.

	Ì	PER MILE OF	MAIN.		ł	
COMPANY.	Capital.	Gas sold	Gas un- accounted for.	Number of Con- sumers	Gas sold per Consumer.	Sold per Meter Light.
		Feet.	Feet.		Feet.	Feet.
Adams,	\$3.460 00	873,480	-	44.4	19,673	2,105
Amesbury,	8,615 80	928,010	64,884	32.5	27,391	2.818
Arlington	4,220 43	422,778	124,282	31.0	13,616	2,954
Athol,	· -	835,831	42,937	36.6	22,840	3,317
Attleborough,	7,356 90	1,701,380	183,637	63.1	26,961	5,268
Bay State,	128,361 48	68,593,540	-	1.5	1 133,583	1 5,322
Beverly,	-	961,927	104,309	65.2	14,642	3,060
Boston,	20,143 83	8,033,133	239,911	218.6	36,417	3,807
Brockton,	11,240 26	981,862	198,496	52.1	18,829	3,282
Brookline,	· -	2,758,467	234,192	91.5	28,106	4,236
Cambridge	7,529 52	1,968,215	162,556	91.5	20,897	4,104
Charlestown,	.,,,,,	2,504,031	212,100	119.9	17,535	3,753
Chelsea	_	756,929	167,231	44.5	17,005	3,168
Chicopee,	5,833 33	1,621,678	276,555	57.2	28,287	2,872
Citizens' (Quincy), .	6,001 40	680,109	195,303	35.0	17,010	3,047
Citizens' (Reading, etc.),	15,152 06	435,851	122,420	26.7	16,347	2,515
Clinton,		1,310,213	242,891	50.2	26 093	2,225
Cottage City,	-	1,221,790	268,384	86.9	10,597	2,607
Danvers,	3,555 17	496,161	167,947	34.5	14,388	2,147
Dedham.	6,706 22	442,394	109,722	30.6	14,460	2,381
Dorchester,	5,508 87	1,842,139	-	79.0	19,833	4,028
East Boston,	10,678 06	2,238,828	407,799	107.6	17,816	4,667
Easthampton,	-	976,111	160,642	53.8	18,158	2,098
		3,3,111	100,002	,	'	•
Fall River,	7,532 56	2,047.701	105,953	74.4	27,290	2,996
Fitchburg	_	1,097,946	97,144	54.5	19,486	2,828
Framingham,	26,092 47	1,891,178	92,579	43.1	43,927	3,977
Gloucester	6,300 00	1,840,737	53,258	75.1	23,479	4.942
Greenfield,	10,185 74	741,702	110,166	60.9	12,176	2,763
TTown-hill	2 049 04	2,133,968	910 090	105 9	19,326	9 771
Haverhill,	3,042 94	2,133,900	210,089 322,567	105.8 81.5	27.668	3,771 3,595
Holyoke,	-	2,200,020	322,007	01.0	21,000	3,050
Jamaica Plain,	6,349 23	1,328,425	171,796	56.7	16,881	3,463
Lawrence,	_	1,837,381	129,345	68.8	26,689	3,951
Lowell	5,131 47	2,993,210	207,647	107.9	27,184	4.331
Lynn,	-	2,659,368	250,778	103.2	25,768	4,720
Malden	3,605 77	715,135	150,163	40.7	17,586	3,725
River),	8,627 46	3,611,127	363,440	70.1	51,309	2,743

¹ Based on sales to private consumers.

				PER MILE OF	MAIN.		_	Gas
COMPANY	7.		Capital.	Gas sold.	Gas un- accounted for.	Number of Con- sumers.	Gas sold per Consumer.	sold per Meter Light.
				Feet.	Feet.		Feet.	Feet.
Marblehead,	•	•	\$5,625 79	246,906	162,688	27.8	8,873	1,497
Marlhorough,		•	15,197 33	1,203,853	232,326	51.2	23,502	3,043
Milford, .	•	•	9,060 15	1,416,516	282,981	67.9	20,822	3,273
Nantucket, .			20,054 20	1,142 547	301,176	101.4	11,273	3,238
Natick, .			5,961 10	667,622	86,342	61.3	10,628	1,789
New Bedford,	•		· -	1,565,846	128,376	80.9	17,195	3,399
Newburyport,			_	879,541	119,067	56.0	. 15,702	2,561
Newton, .			-	1,052,544	38,151	40.9	23,069	3,568
North Adams,			-	1,769,725	346,666	74.5	23,531	3,410
Northampton,			4,339 90	1,433,903	222,499	60.5	23,702	3,549
North Attleboro	ugb	'	8,941 75	1,166,250	85,271	41.7	27,990	4,502
Norwood, .	•	•	4,248 55	573,234	-	12.8	38,480	2,910
Otis Company (Wai	re),	-	651 ,994	81,640	49.3	13,203	1,639
Pittsfield			7,608 03	1,845,027	159,598	95 9	19,235	4.178
Plymouth, .	•	•	10,126 58	1,160,278		75.4	15,380	3,066
Roxbury, .			7,788 06	2,815,292	30,635	131.1	21,254	4,367
Salem			9.356 87	1.251,117	137.303	90.3	13.861	3.029
South Boston.			13,682 32	3,240,838	41,578	135.8	22,240	5.049
Spencer, .			_	540,772	68,020	33.4	13,877	3.048
Springfield, .	•		4,917 39	1,702,812	81,840	91.5	18,533	3,722
Taunton,	•		3,120 00	1,614,352	74,607	64.0	30,464	3,994
Waltham, .			-	1,020,437	125,467	56.2	17,487	3,015
Webster, .			_	461,759	137,060	45.3	10,193	1,776
Westfield, .			_	970,021	88,261	49,7	19,236	3,798
Woburn, .			6,281 34	1,474,986	106,602	67.8	21,746	4,039
Worcester, .			8,642 42	2,761,340	157,387	97.5	27,987	5,581

Oil-gas Companies.

Amherst, .			-	183,073	-	30.5	5,924	1,332
Chicopee Falls,			-	5 19,253	-	39.0	13,317	2,335
Gardner, .	•		84, 140 91	152,835	-	18.0	8,488	2,171
Ipswich, .			6,877 57	624,628	-	42.4	14,316	2,033
Leominster, . Lexington, .	:	:	6,796 23 -	270,758 135,235	35,869 29,027	32.8 32.3	8,265 4,181	1,633 1,098
Southbridge, Stoughton, .	:	:	-	659,977 175,819	-	102.5 29.5	6,442 5,963	1,050 1,775
Williamstown,	•	•	8,805 56	262,111	-	37.2	6,802	2,039
			<u> </u>					

The following table shows the number of tons of coal carbonized in 1894-95 and 1895-96, the kind and quantities of enricher used by the various coal-gas companies, and the percentage of cost of coal received from residuals: --

COMPANT	ANY			Number of Tons of Coal carbon- ized, Year ending June 30, 1896.	Number of Tone of Coal carbon- ized, Year ending June 30, 1895.	,	Enrichers Used.	ERS U	Jard.			Cannel (Tons).	Naphtha (Gallons).	Oll (Gallons).	Percentage of cost of Coal received from Resid- ual Products.
Adams,			 	86 865 1,828	531 800 1,206	Gas oll,		, . ,				111		707	23.73 60.99
Beverly, Boston, Brockton,		• • •	 	2,827	876 812,099 1,561	Gas off and Cannel, Gas off,	nd naphtha	ğ · ·				121	90, ' '	8,920 - 71,822	46.42
Cambridge Charlestown, Chelsea,	• • • • •		 	16,634 8,754 8,122 1,166	14,759 8,270 8,486 980 856	Gas off, Naphtha, Gas off, Gas off, Cannel and off,			• • • • •			11118	1,111	97,160 24,034 899 6,858	2223 2223 2223 2323 2323 2323 2323 232
Danvers, Dedham,	• •	• •	 	866	320 730	Cannel, Gas oll,	••		• •		•••	1	11	8,662	16.50 83.50
Rast Boaton,		• •	 	4,962 834	4,760	Cannel at	Cannel and gas oil, Cannel,		• •	••	•••	22	11	14,597	59.54 30.56
Fltchburg,	•			1,976	1,702	Cannel at	Cannel and gas oil,	•		•	•	106	•	1,444	99.99
Gloncester, Greenfield,		• •	 	2,157	2,002 8x7	Cannel at Cannel at	Cannel and gas oil, Cannel and gas oil,	• •	••	••	•••	194	11	12,976	60.11 27.08
Holyoke,				6,299	708,3	Crude oll,			•	•	•	,	•	28,546	58.05

66.60	89.70 56.92 56.74	46.84 81.68 82.13 82.73	42.90 40.50 50.51	4.04 4.04 4.04	56.04 29.19	47.78 68.31 82.97	46.26 21.81 28.80 87.67 41.02	18.
•	7,006	1 539 £	3,456	9 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	1,938	20,515 42,183.	401 6,984 100 49,297	Used only in water. gas apparatus and included in quantities given on page 118.
27,290	250		1111		1 1	11 1	11111	laded to quant
•	156	120	' ' ಹ = {	2282 '	31 10	11 96	11081	ratus and inc
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٠			Cannel,	Cannel and on Cannel, . Cannel, .	. ja			•
Naphtha, .	Cannel and gas oil, Naphtha,	Cannel, Gas oll, Gas oll, Cannel,	2		a a		44.224	ll .
Z	577			====.	8 5	5	4.55	11
_	ÖŽŽ	0000	Cannel,	Cannel,	Cannel	Oll, . Oll, . Cannel,	Naphtha, Gas oli, Cannel and fuel oli Cannel and oli,	j
6,411	3 4,839 Ca 3 12,778 N ₁ 3 6,441 N ₁	5,537 1,638 Can 452 Gas 726 Gas 1,220 Can		1,267 Can	468 Cann 471 Cann	3,878 OII, 9 9,283 OII, 8,679 Cann	923 Naph 244 Gaa c 794 Cann 1,100 Cann 8 6,628 Gaa c	al for water gas.
6,316 5,411			2 2 870 870 870 803					t including coal for water gas.
	2 4,839 2,778 2 6,441	5,537 1,638 452 726 1,230	2 2 870 870 870 803	1,938 1,267 1,144 465	468	3,878 9,283 8,679	923 244 1,100 8,628	Not including coal for water gas.
	2 4,839 2,778 2 6,441	5,537 1,638 452 726 1,230	2 2 870 870 870 803	1,938 1,267 1,144 465	468	3,878 9,283 8,679	923 244 1,100 8,628	3 Not including coal for water gas.
	2 4,839 2,778 2 6,441	5,537 1,638 452 726 1,230	2 2 870 870 870 803	1,938 1,267 1,144 465	468	3,878 9,283 8,679	923 244 1,100 8,628	³ Not including coal for water gas.
	2 4,839 2,778 2 6,441	(1),	2 2 870 870 870 803	1,938 1,267 1,144 465	468	3,878 9,283 8,679	923 244 1,100 8,628	
	2 4,839 2,778 2 6,441	(1),	2 2 870 870 870 803	2,200 2,200 1,008 1,427 1,008 1,008 1,044 676 676	504 468	3,878 9,283 8,679	923 244 1,100 8,628	
6,316	2 4,839 2,778 2 6,441	(1),	2 2 870 870 870 803	2,200 2,200 1,008 1,427 1,008 1,008 1,044 676 676	504 468	3,878 9,283 8,679	923 244 1,100 8,628	
6,316	2 0,608 3 4,839 3 16,227 3 12,778 3 7,667 5 6,441	(1),	280 286 296 423 310 435 406 3 2032 405 405 405 405 405 405 405 405 405 405	2,200 2,200 1,008 1,427 1,008 1,008 1,044 676 676	504 468	4,306 3,878 8,061 9,283 8,061 8,679	1,957 923 288 244 923 704 1,096 1,100	
	2 4,839 2,778 2 6,441	5,537 1,638 452 726 1,230	289 296 296 200 200 200 200 200 200 200 200 200 20	2,266 1,031 1,031 1,427 1,237 1,44 1,063 1,144 615	468	3,878 9,283 8,679	1,957 923 286 244 923 794 1,006 1,100 1,006 1,000 1,006 1,000	1 No enrichers used. 3 Not including coal for water gas.

The following tables show the materials and quantity of each used in the manufacture of water and oil gas, also the process used and the quantity of water gas made: --

Water Gas.

COMPANY.		Process used.	Materials used in Generator.	Quanti	Quantily used.	Enricher used		Quantity used.	Water Gas made.
Adams,		Improved Lowe,	Anthracite,	461.0 tons,	tons,	Gas oil,		Gallons. 27,444	Fret
Amesbury, .		Lowe-Granger, .	Anthracite,	280.0	:	Naphtha, .	•	81,389	6,906,500
Athol,	•	Lowe-Granger,	Anthrucite,1	230.0	:	Naphtha,	•	97,820	5,256,000
Bay State, .		Lowe,	Anthracite,*	16,294.0	3	Naphtha, . Gas oil, . Crude oil,	• • •	100,095 2,085,853 3,172,180	1,071 236,000
Boston, .		Wilkinson,	Anthracite, Coke,3	4,546.4	: :	Gas oil, . Naphtha, .	• •	215,464 1,821,494	408,717,000
Brookline, .	•	Imp. Jerzmanowski, .	Anthracite,4	7,811.6	:	Naphtha, .	•	8,391,778	753,824,000
Charlestown,.		Granger,	Anthracite,	1,039.6	:	. Naphtha, .	•	213,703	40,143,000
Chicopee, .	. •	Improved Lowe,	Anthracite,	289.0	:	Naphtha, .	•	58,683	11,525,000
Citizens' (Reading, etc.),	g, etc.),	Kendull,	Bituminous,	100.0	:	Naphtha, .	•	36,000	2,851,560
Cottage City,.	•	Loomis,	Anthracite,7	86.0	:	Lima oil, .	•	592	8 3,412,500
Fall River, .	•	Гоме,	Anthracite,	1,455.2	:	. Gas oil, .	•	368,057	82,777,900
Framingham,	•	Loomis,	Bituminous,"	394.8	:	1		ı	8 13,958,000
Haverhill, .		Wilkinson,.	Anthracito,"	936.8	:	. Naphtha, .	_	87×,897	73,385,000

	_							
23,779,766	137,063,000	54,799,800	24,207,000	16,693,000	8,313,700	27,185,000	6,525,400	103,012,000
			~~					
106,701	615,977	272,409	88,754 87,535	97,805	51,883	142,905	71,883	443,912
•	•	•	• •	•	•	oil,	•	•
Gas oil.	Naphtha, .	Naphtha, .	Naphtha, . Gas oil, .	Naphtha,.	Naphtha, .	Gas and crude oil	Naphtha, .	Gas oil,
~~	~~	~~	• •	•	•	•		~~
223.0 " 20,570 bushels,	1,814.3 tons, 567.3 "	141.0 " 37,005 bushels,	524.2 tons, 27.2 "	. 0.±29	104.0 "	478.0 "	1	109 040 bushels, 43.0 tons,
• •	• •	• •	• •	•	•	•	•	
Anthracite,¹ Coke,.	Anthracite, Coke,.	Anthracite, Coke,.	Anthracite, Coke,.	Anthracite,	Anthracite,18	Coke, a .	Naphtha,".	Coke, Coal,
~~	~~	~~	~~	•	•	•	•	~~
Improved Lowe,	Improved Lowe,	Improved Lowe,	Improved Lowe,	Lowe,.	Evans,	Improved Lowe,	Kendall,	Lowe,
•	•	•	•	•	•	•	•	•
•	•	•	•			•	•	
•	•	•	•					
Lawrence,	Lowell,	Lynn, .	New Bedford,	Pittsfield,	Spencer,	Springfield,	Waltham,	Worcester,

* 991.7 tons anthracite, 1772.8 tons screenings, 265.5 tons shavings, 536,331 gallons tar and 36 1 tons wood for generating steam. 1 Steam from electric light department.

* 1,947.6 tons anthracite coal and 4,197 tons coke for making steam; also 472.5 tons anthracite coal, 1,794.5 tons coke and 22.7 gallons fuel oil under 4 4,933.1 tons bituminous coal and 339.4 tons breeze for making steam; also 639,145 gallons fuel oil under carburetting retorts. carburetting retorts.

• 115 tons coke and 915 tons coal used in making steam.

• 71 tons soft coal in making steam.

e Non-illuminating gas.

7 61 tons soft coal in making steam.

• 189.4 tons slack, 357.7 tons screenings and 24.4 tons pea coal for making steam. 10 31.4 tons bituminous coal for making steam.

12 191 tons bituminous coal for generating steam.

¹⁴ 2,277 bushels coke used for generating steam. 11 845.5 tons gas coal and 47.2 tons anthracite coal for making steam; 355 1 tons anthracite coal under carburetting retorts. 13 Steam from steam-heating department.

Oil-Gas Companies.

COMPANY	•	Materials used.	Quantity used (Gallons).	Fuel used.	Quantity used.
Amherst, Chicopee Falls, Gardner,		 Naphtha, . Naphtha, . Petroleum, Gas oil, . Naphtha, . Gas oil, . Naphtha, . Naphtha, .	13,878 34,730 140,291 19,900 23,971 7,221 15,659 12,146 15,446	Coke, Wood, Anthracite, Gas oil, Naphtha, Anthracite, Cumberland, Anthracite, Anthracite, Bituminous, Wood,	. 47 tons 3 cords 110½ % ½ % tons 13,356 gals 131 tons 121½ % % tons 44 tons 77 tons 32 tons 884 cords.

¹ Including that used for fuel.

STREET MAINS.

With one exception the returns of the various companies give their street mains in detail. During the year fifty-four companies laid about one hundred and four miles of mains, varying in the several cases from one hundred and sixty-eight feet to about eleven miles.

The following table shows the lengths and sizes of the mains as returned by the companies:—

rease g Year (196	sal ahub A)	8,204 460 11,460 8,442	13,638 59,465	18,178 10,048 2,280 2,640 6,500	17,280	2,176 5,408 51,058
LENGTH IN MILES AND FERT.	Feet.	2,298 3,298 3,298 1,690 1,624	3,070 6,241 1,424 4,102	5,108 3,722 4,870 2,440	4,749 2,120 4,620 1,538	3,594 3,594
LENG	Miles.	~~4¤~~	25 25 25 25 25 25 25 25 25 25 25 25 25 2	24200	H 80-04	200
Total	in Feet.	26,400 86,769 24,418 81,573 80,300 83,304	82,270 47,481 1719,604 130,822 1,320,947	490,868 286,042 200,230 31,680 13,000	62,829 44,860 31,020 12,093	29,703 85,426 452,394
	8	11111	3,484	11111	1 111	111
	2	111111	10,297 15,297 4,602 27,378 - 25,885, 8,078	11111	1 111	
	*	11111	10,207 4,002 25,885	11111	1 111	
	2	11111	- 2,651 10,297 - 611 4,602 19,802 19,470 25,885	11111	1 111	۱ ، 📽
	•	11111	19,602	17,540	1 111	1 1 8
	14	11111		18 11	1 111	111
	2	11111	7,550. 89,645 63,444	32,779 5,631 -	820	13,605 15,095
	2	,8,,8,	6,558 23,775 100 10,581	1,000	1 111	13,605
N INCHI	•	200	22,910 22,910 2,400 149,283	19,445 6,873 43,958	- 10,390 1,640 975	8,040
DIAMETER IN INCHES.	•	7,920 8,000 14,605 8,000 10,764	26,549 1,968 261,434 17,085 399,160	67,284 21,195 31,145 5,280	8,600 580 2,002	18,681 91,173
Dia	4	2,640 14,519 8,195 2,150 6,856	13,373 16,802 124,146 34,768 418,664	43,420 43,121 41,057 2,560	8,400 5,080 6,584	1,459 18,182 162,433
		10,560 14,150 9,681 59,681 13,950 11,882	15,940 146,217 55,000 124,879	293,383 141,598 66,201 18,480 6,900	15,600 13,990 13,600 2,532	5,370 35,262 150,008
	%	111110	131	11111	28,175	12,521
	•	5,280 10,952 2,379 3,700 1,427	12,221 4,777 5,796 81,985	2,65 6,58 4,58 1,000 2,000	11,521 2,980 5,860	7,535 9,388 3,986
	1%	2,627 6,762 300 8,000 8,000	7,985 1,669 27,026	1,080	2,325 160	1,025 8,741 4,632
	11	- 985 148 1400 1,462	6,774	2,830 168 1,600	1,490	995 117 2,430
	1	283 1,794 1,200 250	7,830 10,329	- 	1,890	1,098
COMPANY.		Adams, Ameebury, Anherst, Arlington, Athol, Attleborough, .	Bay State, Beverly, Brotton, Brockton, Brookline,	Cambridge, Charlestown, Chelsca, Chicopee,	Citizens' (Read. Ing. etc.), Clinton,	Danvers
Ö	,	Adame Ameeb Amber Arling Athol,	BENEZ BENEZ	Ches	25 E E	Dan

1 Includes 26,074 feet eighteen-inch main.

216269 28 Year 2661).	uino .	11	42,845 1,500 264	1,631 3,631 -	7,888	727	16,441	13,674 433 82,482 22,676	32,853 7,870 168 8,207	7,101
NGTH IN LES AND FEET.	Feet.	3,184	1,237	860 8,678 86	2,112	2,585	2,441	2,364 2,311 2,595	214 4,190 1,402 2,585 5,175	4,124
Length in Miles and Feet.	Miles.	80	38	1229	28	«	\$	4-464	5 000r	~ ~ g
Total		108,784	201,877 91,516 85,077	58,940 67,038 26,436	139,392	18,425	246,321	227,050 38,845 21,384 *614,471 246,475	80,590 48,642 28,965 42,136	9,740 25,244 176,016
	8	11	111	111		1	ı	11111		111
	98		111	111	1 1	1	1	11111		111
	7	11	111	111		1	ı	3,471		111
	2		111	111	1,902	•	•	432 - 1,675 826	1 1111	
	91	11	2,409		8,247	•	•	1,562 - 848 6,125	1 1111	
	14			111	11	•	,		1 1,111	111
	81	4,900	573	111	1,534	,	896'9	9,163	11,776 	8,906
z i	10	- 69 ·	1,708 2,000 1,920	181	18,328	,	•	11,760 - 18,155 8,762	1,660	• • • •
DIAMETER IN INCHES.		9,852	25,848 12,400 2,548	200	6,150	1	19,240	8,112 1 - 9,695 1 6,865	6,316 8,200 8,200	- '- 6,807
ER IN		5000		822		1,925				888
TELET	• 	4,	66,166 5,400 10,922	8,880 20,912 2,640	28,476	<u>-</u>	80,301	28,866 2,640 52,130 96,638	·	
Ã	4	40,235	33,397 20,700 17,837	8,810 19,616 0,640	27,561 19,744	•	108,133	47,485 5,280 1,500 98,030 86,612	153,068 11,542 2,330 6,440 9,800	8,080 1,984
		46,401	35,040	15,418 18,797 13,421	79,679 64,808	2,102	73,629	129,670 26,965 - 81,778 28,139	2,520 10,979 6,637 9,460	2,640 8,558 102,528
	% %	1 1	1 1 4	181	1,867	8	•	1,320 1,114 2,316 250		
	•	2,043	3,784 3,000 917	25,451 1,271 6,230	1,80,	11,266	7,600	2,640 12,210 200,402 5,574	1,269 10,087 2,848 3,700	6,280 16,690 4,293
	1%	111	4,739	950 1,305	1,248	1,857	250	3,745 876 2,616	2,710 2,817 2,378 1,684 1,575	1,320 472 397
	7/1	11	26,150	811	3,912	ı	100	1,250 810	12 18 18	128
	-	18	2,063	111	1.1	77.6	•	1,066	3,301 1,423 816 1,200	1,960
	COMFANI	East Boston, .	• • • •	Gardner, Gloucester, . Greenfield,	Haverhill,	Ipswich,	Jamaica Piain, .	Lawrence,	Malden	Nantucket, Natick, New Bedford,

21,543 3,580 1,620	553 4,956	739,034	1,325	6,104		\$5,843 800	9,627	2,681 905 8,759 235 14,134
364 4,733	3,203	715	1,136	220	8888	5,110 5,110	8,383	2,955 1,788 3,134 9,243
2821	0 0	w	80 60	11	22 23 24	250	ន	₩40×r \$
53,164 416,573 63,360 60,834	50,723 36,537	427,116	43,375	e406,780	169,289 169,796 11,890	98,946 322,912 20,950	185,383	124.395 21.915 49.308 718.974 37.911
1111	11	1	11	,	111	111	•	111111
1111	11	•	• •	•		• • •	ı	11111
1111	11	'	11	956	111		•	11111
1111	1 1	1	11	5,869	4,325	111	ı	111118
1111	11	•		1,583	3,260	186	•	1 1 1 1 1 8 4
1111	1.1	,		•		111	3,021	1,859
3,750	1 1	•		27,787	3,605	12,382	8,875	1 1 1 1 1 7
35,609 1,500 900,000	4,956	1	§ ,	1,339	5,214 5,035	6,609	8	1,460
1,320 6,855 1,025 1,420	2,500	928	11	8,745	3,794 6,824	11,690	7,332	1,500 2,073 8,430 11,390
3,196 3,196	8,939	8,050	2,000	62,816	27,420 33,486 1,325	5,015	36,860	20,214 8,720 2,575 1,900 69,590
5,280 166,340 19,475 24,160	26,028 21,876	4,481	5,800	61,417	63,505 12,697	106,172	27,016	21,933 10,468 4,996 4,396 76,395
23,496 158,351 21,326 22,667	6,510	•	26,400	240,638	41,345 102,528 8,095	16,185 118,258	56,207	72,278 10,600 25,143 1,926 17,418
1111	1.1	•	3,	•	111	111	1	11111
6,290 16,050 6,615 5,502	8,985	11,499	2,910 3,125	481	18,170 287 807	25,670 9,825	472	8,842 8,842 8,226 9,169 26,197
5,808 2,100 432	15-	1,485	565	•	2 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	86. 86.	•	1,127 480 1,639 500 8,957
1,276	510	676	• •	,	3,,	202 202 ·	•	1,34 1,250 1,221 1,200 1
1,250 1,972	2 5g	4,219	2,000	•	1 1 3	16,029	•	273 725 870 950 11,094
Newton, Newton, North Adams, North Anthon, North Artic	Norwood,	Otis Company, (Ware),	Pittefield, Plymouth,	Roxbury,	e e	• • •	Taunton,	Waltham, Webster,

Includes 756 feet nine-inch main.
 Includes 875 feet three-fourths-inch main.
 Includes 223 feet five-inch main.

⁹ Includes 5,326 feet eighteen inch main.
⁸ Decrease during the year owing to remeasurement.

Includes 27 feet three-fourths-inch main.
 Includes 169 feet cighteen-inch main.
 Includes 3,165 feet cighteen-inch main.

METERS.

The total number of meters in use June 30, 1896, was 166,295, representing a nominal capacity of 1,073,974

lights, being an increase over the previous year of 15,894 meters and 79,256 lights. The following table shows the details concerning numbers and sizes: ---

								N	KBE	NUMBER AND SIZE OF METERS	Sizi	0.0	METR	13.8 13.8									Tota	<u>ئ</u> ۋ چ	Total
COMPANY.	" A	# i	8 J	5 17.	10 L'u	20 L't.	36 17	3.5 L'1	5 T	45	50 L't.	66 L't.	80 L't.	100 L't.	120 125 L't. L't.	125	150 I	180 2 L't 1	200 a	250 300 400 L't L't, L't.	300 40	100 500 L't. L't.		9 % ;	during the year
Adams,		041116	174 129 318 147 211	108 201 1106 39	481 184 166 16	12 12 12 12 12 12 12 12 12 12 12 12 12 1	141144	1.141.14	Treen	TILITE	104150	101110		0411111	TITLE	*****	TELLER	111111	81-1111		HH1111	1-1111	222 226 210 388	212200	35 9 16 38 9 16
Bay State, Beverly, Brotkin, Brocklon, Brookline,	••••	- 8228 - 8 21	18,010 862 862 12,756	6,729 256 5,560	5,763 100 2,991	2,248 2,248 1,061	1,115 1,115 13 248	31111	71111	14818	1-428	343	8.221	180 8	1111	11111	1 1 2 8 2	1111	8 ·8	11210	11818		20,787 20,787 22,891	86564	514 514 106 1,865
Cambridge, Chelsea, Chelsea, Chicope Falls, Chicope Falls, Chilzens (Quincy), Chilzens (Guincy), Chilzens (Guincy), Chilzens (Guincy), Chilzens (Guincy), Counge City,		828 : 25 : 1	5,927 1,873 256 20 20 241 118 170	1,782 627 177 16 18 18 18 18 6	400 405 805 805 805 805 805 805 805 805 805 8	177 8 8 132 132 132 132	27.0000000	11111111	11111111	8-5411	8000010101	801811111	<u>≅∞4ıı⊣ı∞ı</u>	821541141	04 1 1 1 1 1 1 1 1	11411111	400411141	1100111111	1=111==1	IMPRIBILI	110111-11	111111111	8,502 1,688	0 = 0 0 0 b − 4 0 0	202 111 222 222 222 222 222 222
Danvers		4-3	25 88 4 26 88 4	83 8	8629	88	F 48	111	111	1-1	844	<u></u>	1~0		111	111	100	111	111	111	111		194		14 97 1,166

85.83	579 57 27	• # H	210	ន	8	218 200 200 200 200 200 200 200 200 200 20		1161 1161 1168 1168 1168	13
2,217	2,843 945 886	202 202 203 203 203 203 203 203 203 203	3,616	148	2,686	241 241 131 10,517 4,796	812.4 828.2 82.2 84.2 84.2 84.2 84.2 84.2	187 293 293 2,698 8,225 894 400 400 89	263
1 1	111	111	1 1	•	1	11111			•
11	e0 1 1	7.7.1	1 77	•	•	11111	1111	11111111	
11	¤ ''	111	12	1	1	-1111	10111	111201111	•
11	21 '	111			•	11101	4111	111181111	<u> </u>
LI			41-	•	٠	e 1 1 2 L	40111	114110111	64
11	111	111	1 1	٠	•	1111		111111111	•
-	411	111	4 80	1	•	-112-	14111	111644411	•
<u></u>	111	111	11	•	1	11111			•
11	111	111	11		1	11111	11111	11111111	1
4 1		111	12	••	•	81,58	© 1 1 61 80	1 15000400	4
64 80		-41	04	•	64	981 150	∞ 04 	144 146 0 1H	1
40	9 27	1	18	•	•	01100	1114	144104111	69
27	≅ 0 4	1001	% '	64	•	81,183	₩ 1 © + 1	10008-110	•
64 4	۱۱ ca	i i m	' র	•	•	11111	11110	1111-2111	-
• •	100 1	111	11	•	•	19111	1111	11111111	1
11	111	111	11	•	•		1111	11111111	一
80 80	800	194	នន	-	10	14 101	2 m 1 m 1	4 - 4 0 0 0 C C C 4	1
27	888	64 55 6	£ \$	•	Ş	3-488	2-283	45855255	•
2 81	822	≈\$8	88	71	28	8	2028	227 227 288 888 888 130 131	2
ន្តផ	1,568 333 160	238	578 F F 8	7	8	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 8422	25 8 8 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 1	44
8,7 6,1 6,1	84.	511.93 81.93	1,842	3	1,688	2,042 187 113 7,831 8,483	2,576 362 156 156 122	1,951 1,951 1,951 1,882 1,882 1,050 520 2,500	88
£"		41,5	2-	8	4	84134	21102	14224 1 1 1 1	-
•••	• • • •		• •	•	•	• • • • •	• • • • •	• • • • • • • • • • • • • • • • • • • •	•
• •	• • •	• • •	• •	•	•	• • • • •	(Fali Elver)	• • • • • • • •	•
• •	• • •		• •	•	•	• • • • •	alia 		•
• :	•••	• • •	• •	•	6	• • • •	. .	Mantucket, Matick, New Bedford, New Burryport, Newton, Northampton, Northampton, Northampton, Northampton, Northampton, Northampton, Northampton, Northampton, Northampton,	Otis Co. (Ware),
Boston, ampton	7. % B	2.2	<u>.</u>	•	Plat	, j. j.	ture:	ot, dford ypor dami	ě.
East Boston, Eastbampton	Fall River, Fitchburg, Framingham,	Gardner, Glouceste Greenfield	erhil 70ke	[pewich,	Jamaica Plain,	Lawrence, Leominster, Lexington, Lowell,	Malden, Manufacturers Marblebead, Marlborough, Milford,	Nantucket, New Bedford, Newburyport, Newton, North Adams, North Adams, North Attlebo	පි
AA	Fre	Gardner, . Gloucester, Greenfield,	Haverbill, . Holyoke, .	Ipa	3		KKKKK	Nantucket, Natick, New Bedford, New burport, Newton, North Adams, North Adams, North Atliebort	950

¹ Including 80 four-light meters.

Increase	during the year.	82	767	140 771 1 50 544 16	8	132 26 37 28 1 1 676
Total Number Increase		788 298	10,103	2,894 4,368 221 221 436 436 111	1,640	1,825 188 464 134 487 6,775
	100 120 125 135 136 136 206 256 250 300 400 500 L't. L't. L't. L't. L't. L't. L't. L't.		•	111141	-	11111
	#00# T.1	11	1	11111	'	11111
	300 L't	- 1 1		141111	'	Ø11111
	250 L't		•	+ + + + + +	-	1411164
	200 L't.	1 1	•	1001111	•	11114
	180 L't.	1.1	•	11111	1	11111
	150 L't	64 1	•	111101	•	11114
	125 L't.	1.1	•	11111	ı	111111
	120 L't.	1.	•	11111	ı	11111
18.8	100 L't.	• •	=	404181	•	œ । । । ஜ
MBTE	80 L't.	11	==	• 1-1-1	ន	1101-8
40		69 1	•	88468 I	60	918188
8123	50 L't.	61 1	28	212	11	@ 1011-8
NUMBER AND SIZE OF METERS.	. L't.	64 83	64	114181	64	11001104
MBK	L't.	1 00	•	1 1 64 1 1 1	1	1-1111
NO	85 40 Lt. Lt.	1 1	•	11-11	,	111111
	8 3	1	\$	82319991	8	Ses 1 81 10
	8 <u>1</u>	91 9	111	240021	7	120 120
	2 1	-88	816	108 18 170 5	121	\$ # 12 # 12 # 2
	L't.	421	2,924	724 416 424 436 436 436 436 436 436 436 436 436 43	808	. 101 17 58 77 74
	8 ;	956 193	6,130	2,260 3,680 114 4,444 86	1,063	
	##	េស	18	2821128	16	86 6 4 - 4 818
	·		•		•	
		••	•	• • • • • •	•	
	MX.		•	• • • • • •	•	• • • • •
	COMPANY.		•		•	
		Pittefield, . Plymouth,	Roxbury, .	Salem, South Boston, South bridge, Spencer, Springfield, Stoughton,	Taunton, .	Waltham, . Webter, . Westfeld, . Williamstown Woburn, . Worcester,

-

HIGH-POWER GAS LAMPS.

The following table shows the number of Lungren or other high-power gas lamps reported as in use June 30, 1896:—

Amesbury (Wel⊳b	ach)	,			250	Lawrence,				•		3,03
Attlehorough	١,					2	Lowell, .						
Beverly,	•					3	Milford,				•		2
Brockton,						19	Natick.						
Citizens' (Re	ading	. etc.	(W	elsba	ch'	300	New Bedford						1
DII-4	•		•	•	•	10	Newton.						4
Cottage City	(Wel	sbacl	١).			2,530	North Adam	B.					2
East Boston.			-,,		-	75	North Attleb		b.				1
Easthamptor						215	Otis Compan			١. `			_
Fall River,		:		Ĭ		4,434	Pittsfield.	•		"	-		1
Framingham		:	•	:		2.055	Plymouth,	-	:				64
Gloucester.	·,	:	•	•		1,575	Spencer.	:	:	•	•	•	٠.
Greenfield.	:	•	•	•	•	22	Taunton.	:	:	•	•	•	1
Haverbill.	:	•	•	•	•	80	Waltham,		:	•	•	•	i
Holyoke,	:	•	•	•	•	3,281	Westfield.	:	•	•	•	•	2

GAS STOVES.

The companies reporting gas stoves in use on June 30, 1896, are as follows:—

Adams,		,					0	Ipswich,		•		•	•	6
Amesbury, .		,				2	5	Lawrence,						1,713
Amberst, .		,					1	Lexington,		•				1
Arlington, .							2	Lowell, .		•				1,594
Athol,						5	0	Lynn, .						1,000
Attleborough,						5	8	Malden, .						· 6
Beverly,			•			15	0	Marlborough	١,	•				35
Boston,					1	2,82	7	Milford,.	٠.					42
Brockton							0	Nantucket,						42
Brookline					1	9,00	2	Natick, .						125
Cheisea						16	0	New Bedfore	d.					1,447
Chicopee, .						8	13	Newton.	٠.	•				350
Citizens (Quin	cv).					8	7	North Adam	8.					150
Citizens (Read			١.				6	North Attlet	ю	ough.				106
Clinton,	6,	•	``			2	16	Norwood,						7
Cottage City,							37	Otis Compar	v	(Ware).				152
Danvers.			:				rò	Plymouth,	٠.					136
Dedham.						2		Roxbury,						8,154
Dorchester						6.20		Salem, .				·		700
East Boston.			-				50	South Bosto	n.			-	-	3,171
Eastbampton,			•	•	·		25	Spencer,	-,		•	-	Ī	239
Fall River,		•	•	•	•	190		Springfield,	•	•	•	•	•	3,306
Fitchburg, .		•	•	•	•		50 I	Taunton,	•	•	•	•	•	288
Framingham,		•	•	•	•		95	Waltham,	:	•	•	•	•	331
Gardner,		•	•	•	•		30	Webster.	•	•	•	•	•	12
Gloucester,		•	•	•	•		35	Westfield.	•	•	•	•	•	160
Greenfield.		•	•	•	•		90	Williamstow	, n	•	•	•	•	23
Haverbill.		•	•	•	•		35	Worcester,	,	•	•	•	•	3,12
Holyoke,		•	•	•	•		50	W OLCEBELL,	•	•	•	•	•	0,12

The following table shows the number of lamps supplied June 30, 1896, the net increase or decrease during the year, the average price per thousand feet received from gas used in street lamps, and the cost per thousand feet of the care of the lamps where this is done by the companies:—

Public Lamps - Coal Gas.

COMPANY.	Number of Lamps supplied.	Increase,	Decrease.	Average Price received per M. including Expenses.	Expense of Lighting and Care of Lamps
Amesbury, Beverly, Boston, Brookline, Cambridge, Charlestown, Chicopee, Citizens' (Quincy), Cottage City, Dorchester, East Boston, Fall River, Fitchburg, Gloucester, Haverhill, Holyoke, Jamaica Plain, Lawrence, Lowell, Manufacturers' (Fall) Milford, Natick, New Bedford, Newton, North Adams, Norwood, Otis Company (Ware Roxbury, South Boston, Springfield, Taunton, Waltham, Westfield, Worcester,	23 6 6 644 3,057 300 516 8 29 1,575 427 85 22 100 185 29 988 7 949 7 1 1 6 467 903 111 97 2 143 463 30 129	4 5 - - 4 147 - - - - - - - - - - - - - - - - - - -	12 10 	\$2 00 1 93 90 77 1 20 1 25 1 37 1 00 1 35 1 49 1 25 1 25 1 25 1 30 1 49 1 30 1 49 1 30 1 00 1 00 1 00 1 00 1 00 1 04 2 67 2 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	\$0 18

Public Lamps - Oil Gas.

Amherst, Chcopee Falls, Ipswich, Williamstown,	:	:	:	10 - 23 4	9	9 - 6	\$5 00 - 3 52 6 01	- - \$1 54
---	---	---	---	--------------------	---	-------------	-----------------------------	------------------

PURITY OF GAS.

The law provides that when the gas of any company is found on three consecutive inspections to give less light than sixteen standard English candles, or to contain more than twenty grains of sulphur or ten grains of ammonia per hundred cubic feet of gas, or any sulphuretted hydrogen, a fine of one hundred dollars shall be paid by such company to the city or town supplied by it.

The following table shows the amount of impurities found on the dates stated, and the whole number of inspections during the year, of the gas of the several companies named, as reported to this Board by the State Inspector of Gas:—

Kind of Impurities.	сомг	PKA'	·,		,	Amount of Impurities.	Date when found.	Total Number of Inspections during the Year.
Deficient candle- power.	Marlborough, Quincy, Taunton, .	:	:	:	•	15.1 14.4 14.6	Mar. 25 Sept. 3 Feb. 12	3 3 8
Ammonis, grains per 100 cu. ft.	Beverly, Brockton, Cambridge, Cambridge, Easthampton, Greenfield, Holyoke, North Adams, Taunton, Ware,					11,9 18.9 15.4 11.2 27.0 14.5 11.2 15.4 14.9 14.9	Nov. 11 May 12 Dec. 2 Dec. 10 Aug. 3 Feb. 27 June 20 Oct. 28 Dec. 17 Feb. 12 Dec. 16	3 5 28 - 3 2 11 5 - 8 3
Sulphur, grains per 100 cu. ft.	No instance, .	•	•	•	•	-	-	-
Sulphuretted Hydrogen.	Adams,					Trace.	Dec. 17 Mar. 11 Oct. 7 Dec. 21 Mar. 26 Dec. 9 Dec. 20 Mar. 25 Dec. 10 Feb. 11 Dec. 21 Dec. 26 Aug. 28 Feb. 27 Apr. 9 Dec. 19 Dec. 17	3 3

A study of the inspections of the coal-gas companies made during the five years from 1892 to 1896, inclusive, shows the following facts:—

Number of inspections made,		_				1892.	1898.	1894.	1895.	1996.
Number of companies showing deficiency in candle-power,	Number of insp	ections made,		•		486	515	535	544	588
candle-power,	Number of com	panies subjec	t to insp	ection,		70	68	69	69	70
Highest candle-power, not including nine oilgas companies,	Number of con	mpanies show	ving defi	iciency	in					
gas companies, 28.2 27.7 29.0 29.6 28.2 Lowest candle-power, not including nine oil-	candle-pow	er,				1	4	3	3	3
Lowest candle-power, not including nine oil-	Highest candle	-power, not in	cluding	nine of	11-					
	gas compar	nies,		•		28.2	27.7	29.0	29.6	28.2
	Lowest candle-	power, not in	cluding	nine of	il-					
						15.7	15.3	15.6	14.4	14.6
Average candle-power, not including nine oil-	Average candle	power, not in	acluding	nine of	1-					
gas companies, 19.25 19.80 19.29 19.34 19.00	gas compar	aies,				19.2	19.80	19.29	19.34	19.00
Number of companies showing sulphuretted	Number of con	mpanies show	ing sul	phurette	d					
hydrogen, 8 6 6 11 13		-					6	6	11	13
Number of companies showing excess of sul-	Number of com	panies showi	ng exces	s of su	l-					
phur, 2 1 5 2 0	phur, .					2	1	5	2	0
Number of companies showing excess of am-	Number of con	apanles showi	ng exces	ss of an	n-					
monia, 12 8 9 9 9	monia,					12	8	9	9	9
Largest amount of sulphur, 32.9 21.4 23.5 21.8 19.0	Largest amoun	t of sulphur,				32.9	21.4	23.5	21.8	19.0
Smallest amount of sulphur, 1.0 0.7 1.6 1.7 2.8	Smallest amou	nt of sulphur,				1.0	0.7	1.6	1.7	2.8
						9.46	8.32	9.45	9.27	8.82
Largest amount of ammonia, 40.4 35.7 31.3 41 7 27.0	Largest amoun	t of ammonia			:	40.4	35.7	31.3	417	27.0
	U					1	1	1	1	1
•			•			2.5	2.24	2.7	2.58	2.24

The inspections of the oil-gas companies showed: --

						1892.	1893.	1894.	1895.	1896.
Highest candle-power,			•	•		60.4	59.6	47.2	44 6	54.7
Lowest candle-power,	•				•	21.6	22.5	20.8	27.8	20.4
Average candle-power,	•	•	•			33.50	32.34	31.47	33 .91	34.12

ELECTRIC LIGHT.

The following table gives the names of the electric lighting companies in active operation on June 30, 1896, together with the localities supplied and the amount of capital stock:—

CORPORATE NAME.	LOCALITIES SUPPLIED.	CAPITAL.
Abington and Rockland Electric Light		
and Power Co.,	Abington, Rockland,	\$73,400
Adams Electric Light and Power Co.,	Adams,	8,500
Amesbury Electric Light, Heat and	A	***
Power Co.,	Amesbury,	50,300
Amherst Gas Co.,	Amuerst,	30,000
Athol Gas and Electric Co.	Athol,	50,000
Attleborough Steam and Electric Co.,	Attleborough, North Attle-	_
and and and only	borough,	35,000
Beverly Gas and Electric Co.,	Reverly	_
Blackstone Electric Light Co.,	Blackstone,	10,000
Block Plant Electric Light Co.,	Boston,	9,500
Blue Hill Electric Co.,	Canton,	30,000
Boston Electric Light Co.,	Boston,	1,700.000
Blue Hili Electric Co., Boston Electric Light Co., Bridgewater Electric Co., Brookline Gas Light Co.,	Bridgewater,	15,000
Brookline Gas Light Co.,	Brookline, Boston (Brigh-	
Cambridge Electric Light Co.,	ton),	200,000
Central Massachusetts Electric Co.,	Cambridge, Palmer, Monson, Warren,	150,000
Charlestown Gas and Electric Co.,	Charlestown	100,000
Chelsea Gas Light Co.,	Cheisea.	
Clinton Gas Light Co	Clinton,	_
Cohasset Electric Co.	Cobasset, Scituate,	30,000
Cottage City Gas and Electric Light Co.,	Cottage City,	´ -
Dedham Electric Co.,	Dedham	60,000
Easthampton Gas Co.,	Easthampton,	· -
Edison Electric Illuminating Co. of		
Boston,	Boston,	3,188,800
Edison Electric Illuminating Co. of Brockton,	Dunchton	100 000
Edison Electric Illuminating Co. of	Brockton,	100,000
Fall River.	Fall River,	150,000
Fall River Electric Light Co.,	Fall River,	200,000
Fitchburg Gas and Electric Co.,	Fitchnarg	
Framingham Plactric Co	Framingham, Ashland,	80,000
Franklin Electric Light Co.,	Turner's Falls,	10,000
Gardner Electric Light Co.,	Gardner	30,000
Pranklin Electric Light Co., Gardner Electric Light Co., Gloucester Electric Co., Genton Electric Co.,	Gloucester, Rockport,	50,000
GIRIUU ERCURCON	Grafton, Sutton	10,000
Great Barrington Electric Light Co.,	Great Barrington,	23,800
Greenfield Electric Light and Power Co.,	Greenfield, Haverhill, Bradford,	30,000
Haverbill Electric Co.,	Dadeon Dradiord,	127,500
Hudson Electric Light Co.,	Hude Derk	1 15,000 100,000
Hyde Park Electric Light Co., Lawrence Gas Co.,	Hudson, Hyde Park, Lawrence, North Andover,	100,000
Zamiraculor Com Cong i i i i i	Methuen,	_
Les Electric Co.,	Lee, Lenox,	20,000
Lenox Electric Light Co.,	Lenox,	20,000
Leominster Electric Light and Power Co.,	Leominster,	50,000
Lexington Gas Light Co.,	Lexington,	· -
Lowell Electric Light Corporation,	Lowell, Tewksbury, North	
	Chelmsford,	300,000
Lynn Gas and Electric Co.,	Lynn, Swampscott, Nahant,	l
	Saugus,	-

¹ Par value, \$25 per share.

	COZ	(PA	NY.				Whole Number of Stockholders.	Number Resident in Massachusetts.	Value of Stock held in Massachusetts
Rawson (Leice	ster)),	•		•	•	5	5	\$25,000
Salem, .							140	135	167,900
Somerville,							246	238	196,800
South Hadley							8	3	7,000
Suburban (Re							5	5	60,000
Suburban (Bo	ston)	,	•	•	•	•	10	10	174,400
Taunton, .							17	17	50,000
Union, .							8	ı	100
United			-		-		191	179	449,800
Uxbridge and	Nor	hbr	idge,				56	56	39,300
Ware, .	_	_					49	48	26,300
Westhorough,	:	•	•	•	•	:	19	17	1 24,490
Weymouth,		:	:	:	•	:	1 12	l îi	37,900
Winchendon,				:	•	•	28	28	12,000
Woburn, .	:					•	66	63	115,700
Worcester,	:				:	:	101	100	188,700

¹ Par value, \$10.

The following table shows in greater detail than in previous reports the aggregate results of the operations of the electric light central stations in the State for the year ending June 30, 1895, and for the year ending June 30, 1896:—

•	YEA	AR ENDING JUNE 30.			
	1895.	189	6.		
RECEIPTS.					
From sale of commercial arc lights, . sale of commercial incandescent	-	\$ 522,105 0 8			
lights by contract, sale of commercial incandescent	-	213,957 89			
lights by meter,	_	1,473,297 69			
sale of public arc lamps, sale of public incandescent	-	1,170,627 73			
lamps,	-	251,398 03	1		
sale of electric power,	-	517,300 29			
Total for light and power, .	\$3,794,060 41		84,148,681 7		
rent of motors,	_	\$9,246 17	ľ		
rent of meters,	-	2,204 72	l		
steam heating,	-	25.028 02	† •		
other sources,	_	2,099 69			
Total from other sources, .	28,135 75		38,578 60		
	\$3,822,196 16		\$4,187,260 31		

			
	YR	AR ENDING JUNE	80.
	1895.	18	P6
Expenses.			
1. Coal or other fuel,	-	\$644,096 91	1
2. Oil and waste,	-	35,590 60	1
4. Wages at station,	-	47,397 84 494,507 32	l
5. Station repairs,	-	26,987 24	
6. Steam plant repairs	- .	103,452 85	
7. Electric plant repairs,	-	69,113 41	
8. Apparatus and machinery, Total for manufacture,	\$1,358,689 83	33,731 96	\$1,454,878 13
9. Wages for care of lights and meters, clerical labor in this department, and salary or commission of col-			
lectors, 10. Repairs and renewals of lines, me-	-	\$203,220 30	
ters, lamps and motors,	_	253,960 49	
11. Carbons,	_	76,013 36 72,198 27	
13. Globes,		5,443 60	
Total for distribution,	554,410 25		610,8 3 6 02
14. Directors' allowances,	_	\$ 5 322 11	
15. Salaries of officers,	- •	127,603 16	
16. General salaries,17. Rent of offices, if separate from	· -	142,614 03	
plant,	_	11,654 36	
18. General office expenses,	_	51,893 61	
Total for office expenses and management,	295,789 00		339,037 27
10 Tower	146,601 10	_	168,218 83
20. Rent of real estate used for plant.	140,001 10	\$11,607 00	100,210 00
21. Insurance,	_	80 041 69	
19. Taxes, 20. Rent of real estate used for plant, 21. Insurance, 22. Law expenses,	-	19.789 92	
23. Claims, 24. Bad debts, 25. Incidental expenses,	- 1	3,681 70	
25 Incidental expenses	_	17,668 60 63,974 07	
Total for miscellaneous ex-	_	00,012 01	
penses,	186,643 43		166,762 91
	\$2,542,133 61	-	\$2,739,783 16
Leaving an apparent net profit of, .	\$1,280,062 55	-	\$1,447,477 15
Of this profit, the gas companies made in their electrical departments,	204,027 52	-	211,154 02
Leaving for the electric light companies, To which should be added the income	\$1,076,035 03	-	\$1,236,323 13
from rents, jobbing, etc., amounting to,	151,774 28	-	200,567 33
Making a total of, Against which the following charges were made:—	\$1,227,809 31	-	\$1,436,890 46
Interest,	234,444 20	-	253,132 90
Dividends,	487.148 75	-	544,801 75
Depreciation,	1 565,287 65	-	446,662 89
Sundry items,	123,177 56	-	157,432 57
Leaving a surplus for the year of, .	\$1,410,058 16	-	\$1,402,000 11 84,890 35
			33,533 60
Leaving a deficit for the year of,	\$182,248 85	-	-

¹ Of the charges for depreciation, \$228,755.93 were for the forced reduction in plant accounts occasioned by foreclosure sales.

Four 1 of the companies appear not to have earned expenses, and thirty 2 others have not earned sufficient to warrant the declaration of any dividend.

The gross profits of the companies doing only an electric business have increased over the previous year by \$209,-081.15, and although interest and dividend charges have increased, the net of the year's operations shows a surplus instead of a deficit as in the year ending June 30, 1895.

In the appendix will be found, under date of June 30, 1896, the separate balance sheets, profit and loss and manufacturing accounts of the electric companies, as taken from the annual returns, with corrections made by the Board after examination and correspondence with the officers of the several companies.

Aggregates from the balance sheets of the electric companies only, taken from the returns of 1895 and 1896, show the following facts:—

				June 30, 1895.	June 30, 1896.
Assets: —					
Construction accounts, including	ng	pater	ıt		
rights and franchises, .		•		\$13,847,615 54	
Cash on hand,			.	483,805 68	211,463 86
Due for light and power,				3 18,194 94	314,216 56
Other accounts due, Materials, etc., Notes receivable,			. 1	114,594 94	
Materials, etc.,			.	266,532 58	272,884 30
Notes receivable			.	67,956 92	60,790 59
Investments,	•	•		521,372 40	567,509 28
_				\$15,620,073 00	\$15,892,336 86
LIABILITIES:-				AD 407 400 00	\$9,391,900 00
Capital,	•	•	٠ ۱	89,427,400 00	
Bonds,	•	•	٠ ا	3,157,100 00	3,241,136 98
Notes payable,	•	•	•	1,817.058 06	1,775,214 87
Unpaid bills,	•	•	•	435,274 97	
Unpaid dividends.	•	•	.	53,431 50	
Interest due and unpaid,	•	•	.	54,580 92	
Other items,	•	•	•	51,363 11	96,228 91
				\$14,996,208 56	\$14,873,923 41
Reserved and depreciation funds,	•	•	\cdot	180,655 05	281,170 85
				\$15,176,863 61	\$15,155,094 26
Surplus,	•			443,209 39	737,242 60
00.1				\$15,620,073 00	\$15,892,336 86
Of these companies —	- •		- 1	A700 077 10	6000 027 00
53 show an aggregate surplus	OI .	•	• [\$ 789,377 19	\$322,857 93
9 show an aggregate deficit of	r	•	٠	346,167 80	85,615 33
Leaving total net surplus, as show Which, added to reserves carried				\$443,209 39	\$737,242 60
ties,	•	•	•	180,655 05	281,170 85
Would show an actual surplus of Equivalent to per cent. on capital		bont		\$623,864 44 6.62	\$1,018.413 45 10.84

¹ Six in 1895. 2 Thirty-three in 1895. 2 Forty-five in 1895. 4 Sixteen in 1995.

The following table shows the value of the plant of each electric company, as assessed by the local authorities:—

COMPANY.		Assersed Valuation.	COMPANY.	Assessed Valuation.	
Abington and Rockland,		\$52,150	Malden,	\$149,500	
Adams,	•	9,500	Mariborough,	58,613	
Amesbury,	•	27,000	Milford,	36,000	
Andover,	•	14,300	Milibury,	15,000	
Attleborough,	•	30,810		40,000	
Boston,	•	2,450,000	Nantucket,	10,000	
Bridgewater,	•	15,700	Natick,	62,000	
Cambridge,	•	265,000	Northampton,	41.500	
Central Mass. (Palmer),	•	19,600	Orange,	17,000	
Chicopee,	•	15,000	Pittsfield,	100,000	
Cohasset,	•	2,250	Plymouth,	66,250	
Dedham,	•	116,000	Quincy,	50,300	
Edison (Boston),	•	1,521,800		14,250	
Edison (Brockton),	•	91,250	Salem,	185,000	
Edison (Fall River), .	•	105,900	Somerville,	123.700	
Fall River,	•	135,000	South Hadley Falls,	4,500	
Framingham,	•	40,000	Suburban (Revere),	<i>δ</i> ስ,800	
Franklin,	•	9,000	Suburban (Bostou),	88,600	
Gardner,	•	33,175	Taunton,	25,000	
Gloucester,	•	47,000	Union,	15,600	
Grafton,	• 1	2,500	United,	332,100	
Great Barrington, .	•	3,000	Uxbridge and Northbridge,	13.000	
Greenfield,	• 1	27,000	Ware,	22,100	
Haverhill,	•	88,100	Westborough,	10,300	
Hudson,	• [2,500	Weymouth,	45,000	
Hyde Park,	•	99,000	Whitman,	23,300	
Lee,	•	12,000	Winchendon,	6,000	
Leominster,		38,300 211,680	Woburn,	75,750 253, 3 00	

The following table shows the amounts paid by the companies for taxes, including those paid by the gas companies on account of their electric plants:—

COMP	ANY.			Taxes Paid.	COMPANY.	Taxes Paid.	
Abington and F Adaus, . Amherst, . Amesbury, . Andover, . Athol, . Attleborough, Beverly, . Blue Hill, . Boston.				\$1,361 59 199 28 144 85 422 77 270 35 117 00 1,065 18 718 65 91 00 25,896 35	Dedham,	\$758 0 1,917 7 1,947 3 218 2 809 1 224 6 75 2 1,307 6 172 3 46,437 6	
Bridgewater,	:	:	:	25,896 35 225 16	Edison (Brockton).	2.013 3	
Brookline.	:		:		Edison (Fall River).	2,905 20	
Cambridge, .	•	•		4,308 27	Fall River,	3,952 0	

COMPA	NY.			Taxes Paid.	COMPANY.	Taxes Paid.
Fitchburg, Framingham, Franklin, Gardner, Gloucester, Great Barrington Greenfield, Haverhill, Holyoke, Hudson, Hyde Park, Lawrence, Lee, Leominster, Lexington, Lowell, Lynn, Malden, Marlborough, Milford,	,			\$1,469 28 650 48 179 11 704 60 784 58 140 41 186 30 451 79 1,929 03 3,032 41 56 64 1,435 83 1,440 00 269 89 124 60 700 16 305 94 4,848 79	North Adams, Northampton, Orange, Pittsfield, Plymouth, Quincy, Rawson (Lelcester), Salem, Somerville, Southbridge, South Hadley Falls, Spencer, Stoughton, Suburban (Revere), Suburban (Boston), Taunton, United, Uxbridge and Northbridge,	\$400 00 683 0; 355 55 2,040 00 862 92 1,333 92 228 51 2,568 6 2,547 56 637 49 144 92 225 00 153 60 704 43 1,177 54 844 33 330 00 4,945 44
Millbury, . Milton,		•	•	337 56 232 00	Westhorough,	188 18 386 3
Nantucket, .	:		:	118 79 452 80	Weymouth,	760 30
Natick,	•	•	٠		Whitman,	540 7
New Bedford,	•	•	•	4,644 90		211 4
Newburyport, Newton,	•	•	•	1,005 12 800 00	Wohurn,	1,429 7 4,092 2

DIVIDENDS.

The dividends declared by the several electric companies during the year are shown in the following table:—

		Rate Per Cent.	Amount of Dividends.								
Abington and I	Rock		6	84,317 0							
Adams		•								+ _	•
Amesbury,										5	2,515 0
Andover, .										* _	-
Attleborough,	•		•	•	•	•	•	•		* _	-
Blackstone.					_	_		_		3	300 0
Block Plant.				·	·		·	-	·	•-	-
Blue Hill,		·						•			900 0
Boston.	•	•				•	•	-	:	3 8	136,000 0
Bridgewater,	:	:	:	:		:	:	:	:	•-	-
Cambridge.										6	12,000 0
Central Mass.	(Dal.	~~ <u>`</u> \	•	:	•	•	•	•	•	•-	12,000
			•				•	•	•	•-	_
Chicopee, . Cohasset, .	:	:	•	•	:	:	•	•	:	21	750 0

^{*} No dividends declared.

			OMP	ANY.			_			Rate Per Cent.	Amount of Dividends.
Dedham, .					•			•		6	\$ 3,600 0
Edison (Boston	١.	_	_	_	_				!	7	216,609 7
Edison (Boston Edison (Brockt	on).	:	•	:	•	•	•	•	:	6	6,000 0
Edison (Fall Ri	ver),		·	:	·	÷	:	:		74	11,250 0
D-11 D/									į		
Fall River, . Framingham,	•	•	•	•	•	•	•	•	•	8	16,000 0
Franklin, .	:	:	:	:	:	:	:	:	:	7	700 0
•									1	1	•
Gardner, .	•	•	•	•	•	•	•	•	•	81	2,500 0
Gloucester, . Grafton, .	•	•	•	•	•	•	•	•	•		_
Great Barringto	n.	:	:	:	:	:	:	:		•-	_
Greenfield, .	•	•	•		·		:	÷		4	1,200 0
Managh (1)									- 1	6	7 050 0
Haverhill, . Hudson, .	•	•	•	•	•	•	•	•	•	•	7,650_0
Hyde Park,	:	:	:	:	:	:	:	:	:	5	5,000 0
•						-	-	-			•
Lee,	•	•	•	•	•	•	•	•	•	4	800 0
Lenox, .	•	•	•	•	•	•	•	•	•	• •	-
Leominster, Lowell, .	:	:	:	•	•	•	•	•		7	21,000 0
•	•	•	•	•	•	•	•	•	1		-
Malden,		•	•	•	•	•	•		•	6	9,312 0
Marlborough,	•	•	•	•	•	•	•	•	•	23	750 0
Milford, . Millbury, .	•	•	•	•	•	•	•	•	• 1	•	-
Milton, .	:	:	:	:	:	:	:	:		•-	_
•	-	-	•		•	•	•	-	Ĭ	1	
Nantucket, .	•	•	•	•	•	•	•	•	•	3	750 0
Natick, Northampton,	•	•	•	•	•	•	•	•	•	6	3,720 0
Northampton,	•	•	•	•	•	•	•	•	.	- 1	_
Orange, .								•		•	-
Dissaga1.3											2000 0
Pittsfield Plymouth, .	•	•	•	•	•	•	•	•	•	• 6	6,000 0
i iymouth, .	•	•	•	•	•	•	•	•	•		_
Quincy, .		•		•					.	4	3,588 0
Damaan (Talaan	41								- 1	•_	
Rawson (Leices	wr),	•	•	•	•	•	•	•	•	<u> </u>	-
Salem, .									.	6	10,500 0
Somerville, .	•	•	•		•				•	6	12,000 0
South Hadley F		•	•	•	•	•	•	•	•	•-	-
Suburban (Revo	ere),	•	•	•	•	•	•	•	•	•-	_
Suburban (Bost	ω,	•	•	•	•	•	•	•	•		_
raunton, .	•									•	-
7-1 /B	_ \										1 000 0
Union (Frankli United (Springs	o),	•	•	•	•	•	•	•	•	6	1,200 0 30,000 0
Uxbridge and N	orth	orid	ze.	:	:	:	:	:	:	•_	-
						-				_	
Ware,	•	•	•	•	•	•	•	٠	•	5	1,390 0 500 0
Westborough, Weymouth,	•	•	•	•	•	•	•	•	•	2 ·	. 500 0
Whitman, .	:	:	:	:	•	•	•	•	:1	*-	Ξ
Winchendon,	•	•	:	:	:	:	:	:	:1	+ _	-
Wobnrn, .	•	•		•		•	•		.	+ _	
Worcester, .		•					•		.	8	16,000 0

^{*} No dividends declared.

The following table shows the system used, and the maximum dynamo capacity June 30, 1896, stated in lamps of certain nominal candle-powers, also the capacity of the power generators in operation on that date: -

		MAXIMUM Capac	
COMPANY.	System used.	Number of Lamps.	Nominal Candle- power.
Abington and Rockland,	Edison,	48 2,200 2,500 150	1,200 16 16 1,200
Adams,2	. Thomson-Houston,	650 45 500	1,200 16
Amesbury,	Thomson-Houston,	90	1,200
• •	Fort Wayne,	1,000	1,200
Amherst,	Westinghouse,	1,100	16 1,200
Andover,	Thomson-Houston,	2,650	16 1,200
Athol,4	Westinghouse,	1,500	16 16
Attleborough,	Schuyler,	1 150 45	1,200 1,200
Beverly,	. Thomson-Houston,	{ 135 650	1,200 16
Blackstone,	Thomson-Honston, Westinghouse,	900	2,000 16
Block Plant,	Eddy, . Thomson-Houston,	1,000	16
Blue Hill (Canton), .	• Westinghouse,	\ \begin{cases} 60 \\ 1,850 \\ 2,150 \end{cases}	2,000 16 2,000
Boston,*	Thomson-Houston,	2,130 325 21,900 2,390	1,200 16 2,000
Bridgewater,	Westinghouse,	6,000 35 750	2,000 16
Brookline,7	Thomson-Houston,	350 330 4,000	2,000 2,000 16
	Stanley,	3,000	16 1,200
Cambridge, ³	Thomson-Houston, General Electric	9,100	16
, ,	(Brush,	3,950	16 2,000
Charlestown,	Thomson-Houston,	 	2,000 16
Chelsea,	Thomson-Houston,	300 1,950	1,200
Chicopee,	Westinghouse, Thomson-Houston,	1,100 150	1,200
Church Green (Boston),	Mather, Eddy,	6,100 1,300	16

¹ Power generators, 500 K. W.

² Power generators, 120 K. W. ⁸ Power generators, 186 K. W.

⁵ Power generators, 80 K. W.

⁴ Power generators, 240 K. W. 6 Power generators, 620 K. W.

⁶ Power generators, 213 K. W.

⁷ Power generators, 62 K. W. Power generators, 140 H. P.

					MAXINUM CAPAC	
COMPANY,		System used.		Number of Lamps.	Nominal Candle- power.	
Clinton,		Schuyler,			90	1,200
Cohasset	•	Thomson-Houston,	•	•	2,950	16
Cottage City,	:	Thomson-Houston, Ball,	•	:	2,300 60	1,600
Dedham,		Thomson-Houston,	•	1	60	1,200
	•		•	١١:	1,950	16
Easthampton, Edison (Boston), .	•	General Electric, . Edison,	•	•	50 89,600	1,200 16
Buison (Boscon),	•	[•	1	315	1,200
		Thomson-Houston,		. {	100	2,000
Edison (Brockton), .				- 13	650	16
· · · · · · · · · · · · · · · · · · ·		Edison,			45 6,100	2,000 16
		Dulson,	•	. }	836	15
Edison (Fall River), .	_	Edison,		٠١`	7,910	16
24.50.1 (1.11.10-101),	•	General Electric, .	•	٠ ,	3,600 226	16 1,200
Fall River,	_	Thomson-Houston,		. }	500	2,000
	•	General Electric		١,	3,000	16
		Thomson-Houston.		. 5	325	1,200
Fitchburg,1	•	14	•	. ∣≀	1,800	16
		(Fort Wayne, .	•	٠ ا د	150 140	1,200 1,200
ramingbam,	•	Thomson-Houston,	•	· }	2,800	16
Franklin (Turner's Fall	a)	Thomson-Houston,	_	Ì	. 30	2,000
The Line (Lumber of Lum	٠,, ٠	Thomson-Housion,	•	. }	600	10
Bardner,	•	Thomson-Houston,		. }	170 1,800	1,200 16
		(Thomson Houston		- }	150	1,200
Floucester,	•	Thomson-Houston,	•	١١.	1,300	16
7		General Electric, .	•	- 1	2,500	16
Grafton,	•	Fort Wayne, (Schuyler,	•	1	1,000 35	16 1,500
Freat Barrington, .		Stanley,			6,000	16
•		(Westinghouse, .		٠ [ـ	1,550	16
Freenfield		Thomson-Houston,		. [{	45 800	1,200
greenneru,	•	Westinghouse, .	_	. (750	16 16
		۱۲ - ۱	•	1	75	2,000
		Thomson-Houston,		·]{	95	1,200
faverhill.4]]		15	2,000 115	16 2,000
14101UIII,- · · ·	•	Brush,		. 1	25	1,200
]	•	П	1,000	16
		Fort Wayne, .	•	٠ ٠	80	2,000
		Schuyler,		. }	330 300	2,000 1,200
Holyoke, ⁸	•	Edison,		١,	1,000	16
		General Electric, .		٠١.	2,000	16
Hudson,		Thomson-Houston,		. [{	45 450	1,200
				}	650 250	2,000
Hyde Park,	•	Thomson-Houston,	•	· [[3,900	16
		Thomson-Houston,		. [1	350	2,000
awrence,		Fort Wayne,	-	1	200 35	1,200 2,000
≖ ™1€11€0,	•	1 .	•	٠ ر	800	2,000
		Edison,	•	· {	8,800	16
.ee,	•	Thomson-Houston,	•	. [1.300	16
		Thomson-Houston,		. 11	150 1,950	1,200
eominster						

¹ Power generators, 80 H. P.

³ Power generator, 100 K. W.

⁵ Power generators, 100 K. W.

² Power generators, 100 K. W.

⁴ Power generators, 700 H. P.

Power generators, 50 K. W.

						MAXIMUM CAPAC		
СОМРА	NY.			System used.	System used. Number of Lamps.			
Lexington, .				Thomson-Houston,		50 1,500	1,200 16	
Lowell.1 .				Thomson-Houston,		850	2,000	
rowen'	•	•	•	Fort Wayne,		6,600 125	2,000	
Twnn 9				Thomson-Houston.		∫ 575 265	2,000 1,200	
Lynn,	•	•	•	I HOMSOH-ROUSION,	• •	7,250	16	
Malden,				Thomson-Houston,		320 11,700	1,200	
				(Schuyler,		280	1,200	
Marlborough,	•	•	•	Edison,		1,000	16 16	
361163 4				(General Electric, .	• •	1,200	1,200	
Milford,4 .	•	•	•	Thomson-Houston,		1,000	16	
Millbury, .	•	•	•	Thomson-Houston,		50 650	1,200	
Milton,				Thomson-Houston,		2,000	16	
				Fort Wayne,		2,000	16 1,200	
Nantucket, .	•	•	•	Thomson-Houston,		1,150	16	
Natick,.	•	•	٠	Thomson-Houston,		4,600	1,200	
				(60	2,000	
				Westinghouse, .	• •	100 5,800	1,607	
New Bedford,	•	•	•	Thomson-Houston.		3 400	2,000	
				American		118	1.200 2,000	
				(Edison,		8,240	16	
Newburyport,7	•	•	•	Thomson-Houston,		{ 210 400	1,200	
Newton				{ Toomson-Houston,		145	1,200	
	•		·	General Electric, . Thomson-Houston.	: :	5,000 270	16	
North Adams,	•	•	•	Stanley,		4,500	16	
Northampton,				Thomson-Houston,		{ 250 1,930	1,200	
			Ī	(Westinghouse, .		1,000	16	
Orange, .	•		•	Thomson-Houston,		3,150	1,200	
				Fort Wayne,		225	1,200	
Pittsfield,• .	•	•	•	Thomson-Houston,		10,800	1,200	
Plymouth,10.				Thomson-Houston,		 150	1,200	
,,	•	-	-	(Thomson-Houston,		1,000	1,200	
Quincy,11 .	•	•		Westinghouse, .	: :	4,500	16	
Rawson (Leicest	er).			(La Roche,		1,300 1,520	16 16	
Salem,12	, ,		·	Thomson-Houston,		§ 410	2,000	
,	•	•	٠		•	7,900	4,000	
Somerville,18				Thomson-Houston,		595	1,200	
Somervine,	•	•	•	1 nomson-rouston,	• •	4,800	1,20	

¹ Power generators, 450 K. W.

⁸ Power generator, 100 H. P.

⁵ Power generators, 695 H. P.

⁷ Power generator, 50 H. P.

Power generators, 470 H. P.

¹¹ Power generators, 160 H. P. 12 Power generators, 230 H. P.

² Power generators, 280 H. P.

⁴ Power generator, 22 K. W.

⁶ Power generator, 160 K. W.

⁸ Power generators, 55 K. W.

¹⁰ Power generators, 330 K. W.

¹⁸ Power generators, 25 K. W.

İ		MAXIMUM CAPAC	
COMPANY.	System used.	Number of Lamps.	Nominal Candle- power.
Southbridge,	Thomson-Houston,	100 1,600	1,200 20
South Hadley Falls, Spencer,	Thomson-Houston, Ball, Ball,	1,400 70 70	16 1,200 800
Subarban (Revere),	Thomson-Houston,	3,300	1,200
Suburban (Boston),	American, Brush, Thomson-Houston, Westinghouse,	300 95 2,900 4,850	2,000 2,000 16 16
Taunton,2	Arnoux and Hochhausen, Brush,	10 395 2,000 2,650	2,000 1,200 16 16
Union (Franklin),	Thomson-Houston,	{ 90 1,800	1,200
	Thomson-Houston,	950 4,000	1,200 16
United (Springfield),3	Westinghouse,	8,650 45 100 10,000	1,200 16 1,200 1,200
Uxbridge and Northbridge,	Westinghouse,	120 750	2,000 16
Waltham,4	(Fort Wayne, Thomson-Houston,	1,500 245 3,950	1,200 1,6
Ware,	Thomson-Houston,	80 650	1,200 16
Webster,	Thomson-Houston, Fort Wayne,	80 500 1,000	1,200 16 16
Westborough,	Thomson-Houston,	50 650	1,200
	(La Roche,	1,000 98	16 2,000
Westfield,	Thomson-Houston,	1,150	2,000
Weymouth,	Thomson-Houston,	200	1,200
Whitman,	Thomson-Houston,	100 1,650 50	1,200 16 1,200
Winchendon,	General Electric,	650 185	1,200 16 2,000
Woburn,	Thomson-Houston,	3,850 45	1,200 16 1,200
Worcester,	Edison,	{ 990 8,000	2,000 16

¹ Power generators, 220 K. W.

³ Power generators, 530 H. P.

Power generators, 250 H. P.

³ l'ower generators, 80 H. P.

⁴ Power generators, 510 H. P.

Power generators, 500 H. P.

The following table shows the number of electric lights of various candle-power which represent the dynamo capacity of all the companies June 30, 1894, 1895 and 1896:—

										1894.	1995.	1896.
10 c	andle	-power,	•	•	•	•	•	•	•	-	600	600
15	66	44			•			•	•	836	-	836
16	"	"								316,890	342,536	414,450
20	"	46								-	2,400	2,400
30	"	"								800	-	-
4,000	44	"								-	-	6
2,000	**	"		•						11,293	11,608	12,113
1,200	44	66								9,605	10,682	11,522
1,600	**	61				•				160	160	160
1,500	46	44								110	60	35
1,800	**	44								35	_	-
1,700	46	"								35	-	-
800	46	**		_		_	_			70	70	70

The following table shows the number of boilers, their total rated horse-power, the number of engines and the total rated horse-power of the same, and the number of dynamos of the different companies on June 30 last; also the amount of fuel used during the year ending on that day:—

COMPANY.	Number of Boilers.	Total rated Horse-power.	Number of Engines.	Total rated Horse-power.	Number of Dynamos.	Coal used (Tons).	Rereenings (Fons).	Wood (Cords).	Coke (Tone).
Abington and Rockland, Adams, Amherst. Amesbury, Andover, Athol, Attleborough, Beverly, Blackstone, Block Plant, Blue Hill (Canton), Boston, Bridgewater, Brookline, Cambridge, Central Mass. (Palmer), Charlestown, Chelsea, Church Green (Boston), Clinton, Cohasset, Cottage City,	4 2 1 3 3 3 2 2 4 2 1 1 3 3 8 8 2 2 6 8 8 2 2 1	600 150 100 375 350 400 104 60 175 125 6,990 200 1,005 1,000 125 600 790 250 60	3 2 2 1 3 2 2 3 3 1 1 3 3 2 2 40 1 7 6 1 6 5 6 2 2 2 1	725 225 100 435 180 315 700 175 65 287 225 9,192 80 2,685 1,150 160 694 710 325 180 50	177 22 2 2 6 3 3 3 5 5 4 3 3 4 4 3 3 105 2 17 6 12 11 10 6 6 3 3 2	1,862 1,223 328 1,873 627 760 667 189 128,615 330 4,361 6,050 3,25 1,845 2,514 3,164 493 308 56	119 • 64 · 33 · 470 · - 40 · -	3	52.4

Also four generators operated by company belonging to street railway.

² Also two generators operated by company belonging to street railway.

⁴ Also 2 water wheels, 79 H. P.

⁵ Slack.

⁶ Also shavings valued at \$1,053.
7 Also 2 water wheels, 360 H. P.

³ Also one generator operated by company belonging to street railway.

	_									<u> </u>
COMPANY.		Number of Boilers.	Total rated Horse-power.	Number of Engines.	Total rated Horse-power.	Number of Dynamos.	Coal used (Tons)	Screenings (Tons).	Wood (Cords).	Coke (Tons).
Dedham,	•	2	220	2	200	4	449	319	-	-
Easthampton, . Edison (Boston), . Edison (Brockton), Edison (Fall River),		23 6 6	5,875 720 706	37 8 6	8,220 925 985	1 74 19 12	107 21,991 3,126 2,944			- - -
Fall River,		6 3 2	600 400 250	6 4 2 -	890 450 250	17 11 7 2	2,572 1,147 1,114	111		646.0
Gardner, Gloucester, Grafton, Great Barrington, Greenfield,	•	3 3 2 2 2	260 375 120 195 225	2 1 2 3	375 500 75 170 225	5 6 1 4	798 956 - 9 1,036	532 - - -	- - - 1	= = = = = = = = = = = = = = = = = = = =
Haverhill, Holyoke, Hudson, Hyde Park,	•	4 35 1 4	600 825 80 650	2 2 1 3	600 800 60 500	13 25 2 • 8	1,995 95 185 2,292	- - 247		= = = = = = = = = = = = = = = = = = = =
Lawrence, Lee,		8 71 2 2 7 8	992 100 - 250 200 1,050 1,000	. 8 2 - 3 2 3 4	1,125 205 600 185 1,050 2,000	25 2 - 6 3 25 28	4,800 215 1,022 362 5,183 2,662	8 342 - 6 - 10 9	111111	755.0 - - - - 576.6
Malden,		8 3 2 2 2	1,000 375 160 130 350	8 4 3 2 2	1,025 420 270 100 360	16 9 4 2 3	2,255 557 362 323 900	2,214 472 {*650 4	- - 11_ 20 -	- } 31.0 -
Nantucket,		2 7 7 2 4 2 3	205 250 978 200 600 300 450	2 2 5 3 3 2 3	150 600 1,250 215 935 525 700	4 8 38 7 8 8 11	459 670 2,156 403 474 793 1,380	*2,000 101,628 - - -	111111	223.0 61.6 767.8
Orange,		13 2	120	2	185	4	80	-	75	-
Pittsfield,		5 3	535 450	7 3	920 625	12 7	4,381 1,649	-	-	-
nincy, · · ·	•	3	375	5	700	. 8	1,782	-	-	-
Lawson (Leicester),		14 2	230	2	210	8	295	-	-	-

¹ Also 2 water wheels 100 H. P.

² Also 1 water wheel 109 H. P.

⁸ Also 2 water wheels 640 H. P.

⁴ Also one generator operated by company 10 Dust. belonging to street railway.

s Also 4 water wheels 1,120 H. P.

⁶ Also four generators operated but not 18 Also 1 water wheel 150 H. P. owned by company.

⁷ Also 1 water wheel 60 H. P.

⁸ Sparks.

⁹ Current bought delivered at wires of the company.

^{11 17} tons residuum.

¹³ Aiso 2 water wheels 180 H. P.

M Also 2 water wheels 30 H. P.

COMPANY.	Number of Bollers.	Total rated Horse-power.	Number of Engines.	Total rated Horse-power.	Number of Dynamos.	Coal used (Tons).	Screenings (Tons).	Wood (Cords).	Coke (Tone).
Salem,	8 4 2 1 2 1 4 11	1,000 1,000 185 - 60 465 935	4 5 3 1 3 1 2 6	1,360 780 335 100 45 50 415 1,150	21 17 4 2 2 1 6 20	4,231 3,657 454 1 – 1593 1,395 5,704	623	111111	
Taunton,	3 2 7 3	675 350 1,760 334	3 3 5 2	665 225 2,150 185	12 5 37 4	1,565 650 4,768 773	- - -	1 1 1 1	-
Waltham,	6 1 2 2 3 2 2 1 -	781 125 205 160 240 445 250	6 1 2 2 2 3 1 1 5	1,075 125 130 150 140 445 300 90 90	14 3 4 3 6 7 4 2 12	2,603 298 541 655 328 1,151 50 1 _ 3,228	62 302 816	10	393.4 - 149.0

Steam and water power bought.
3 1,101,000 feet of gas used in gas engines.
3 Sparks.

The following table shows the total length of wire; the length of underground conduit, the length of the wires in the same; the number of poles set and the length of streets with overhead wires of each company, on June 30 last:—

COMPANY.	Total Length of Wire (Feet).	Length of Under- ground Conduit (Feet).	Length of Wires in Conduit (Feet).	Number of Poles	Number of Poles	Length of Street with Overhead Wires (Feet).
Abington and Rockland, .	288,900	-	_	1,450	_ '	164,000
Adams	80,460	l –	- 1	160	- 1	29,700
Amherst,	120,860	l –	1 - 1	224	120	27,300
Amesbury	224,240	-	i - I	340	24	73,920
Andover,	97,476	-	-	510	5	35,000
Athol,	69,349	-	- :	400	- '	30,000
Attleborough,	316,328	-	-	783	56	103,372
Beverly,	209,754	-	_	658	_	92,184
Blackstone,	160,000	-	- 1	378	-	50,000
Block Plant	42,972	- 1	-	_	- 1	
Blue Hill (Canton),	389,884	ļ -	-	847	i 48	105,875
Boston,	4,902,920	113,728	942,582	1,677	180	-
Bridgewater,	101,480	'-	_	213	-	96,360
Brookline,	1,235,870	15,174	23,385	1,858	, -	237,160
Cambridge,	1,438,009	_	_	2,549	53	290,000

COMPANY.		Total Length of Whe (Feet).	Length of Underground Conduit (Feet).	Length of Wires in Conduit (Feet).	Number of Poles set in Streets.	Number of Poles set Elsewhere.	Length of Street with Overhead Wires (Feet).
Central Mass. (Palme	ar).	617,580	-	- 1	1,825	50	200,700
Charlestown, .	.,, .	199,600	-	-	334	-	47,520
Chelsea,	• •	661,851 260,758	-	-	1,420 685	-	195,360 94,900
Clinton, Cohasset,	: :	351,570	-	-	938	26	105,098
Cottage City, .		382,000	- :	-	104	54	30,360
Dedham,		806,485	-	-	1,510	-	221,760
Easthampton, .		29,000	-	-	235	-	29,000
Edison (Boston),		1,418,802	343,871	1,418,802	1,900	12	200,000
Edison (Brockton), Edison (Fall River),	: :	729,844 264,619	26,623 26,963	96,084 104,040	1,900	40	38,946
	•					97	
Fall River, Fitchburg,	: :	817,492 485,650	_	[1,619 970	37 15	316,800 128,230
Framingham,	: :	499,471	-	-	678	92	159,720
Franklin,		12,000	-	-	86	8	9,000
Gardner,		227,881	_	_	478	70	54,500
Gloucester,		478,600	-	-	800	30	446,000
Grafton,		223,975 148,590	350	350	667 336	10 70	84,710 81,440
Great Barrington, Greenfield,	: :	71,000	-	-	235	iŏ	56,000
Haverhill,		418,095	_	-	775	15	332,640
Holyoke,		346,800	-	-	1,160	-	116,000
Hudson, Hyde Park, .	: :	35,290 450,680	_		71 829	22	10,790 92,003
		1 100 004	12,864	55,584	2,426	25	322,848
Lawrence, Lee	: :	1,182,004 204,000	_	_	403	12	58,000
Lenox,		25,000	25,000	25,000		-	70.000
Leominster,		\$62,000 172,500	230	230	642 552	8 37	70,000 52,800
Lexington, Lowell,	: :	726,944	_		1,200	50	462,320
Lynn,		1,856,510	-	-	3,600	-	528,000
Malden,		2,682,566	_	_	7,461	20	700,000
Mariborough, .		249.309	-	-	719	22	97,000
Milford, Milibury,	•	170,360 90,810	_	-	555 130	28	56,000 31,270
Milton,	: :	566,083	-	-	973	15	147,840
Nantucket,		182,840	_	_	424	5	49,690
Natick,	: :	359,138	-	_	600	35	63,360
New Bedford, .		983,941	8,401	39,966	1,225	51	169,133
Newburyport,	: :	158,150 1,312,681	-	-	472 3,976	-	79,200 513,992
North Adams,	: :	217,800	-	-	450	25	56,000
Northampton, .	• •	512,106	-	-	890	15	146,350
Orange,		206,692	-	-	575	10	57,360
Pittsfield,		529,050	1,075	1,675	1,307	32	160,300
Plymouth,	• •	200,470	-	-	458	27	67,267
Quincy,		585,200	-	-	1,573	45	171,600
Rawson (Leicester),		210,899	-	-	542	8	70,200
Salem,		952,870	-	-	2,028	39	248,935
Somerville.		1,430,118	-	-	8,404 475	26	419,650 49,875
Southbridge, South Hadley Falls,	: :	194,852 69,000	-	=	325	13	50,000
		1	I	1	1	1	<u> </u>

COMPANY. Total Company Compan
Stoughton, 69,905 Suburban (Revere), 740,892 Suburban (Boston), 381,156 2,414 9,656 30 15 227,0 Suburban (Boston), 159,755 - 630 - 630 - 80,0 Union (Franklin), 145,905 - - United (Springfield), 1,443,246 11,632 75,800 1,253 23 835,3 Uxbridge and Northbridge, 223,400 - 906 86 112.9
Stoughton,
Suburban (Revere) . 740,892 - - 1,584 35 227,0 Suburban (Boston) . 381,156 2,414 9,656 30 115 50,0 Taunton . . 159,755 - - 630 - 80,0 Union (Franklin) . 1,443,246 11,632 75,800 1,253 23 835,3 Uxbridge and Northbridge 223,400 - - 575 - 67,0 Waltham . . 426,600 - - 906 86 112.9
Suburban (Boston), . 381,156 2,414 9,656 30 115 50,0 Taunton, . . 159,755 - - 630 - 80,0 Union (Franklin), . . 1,443,905 - - - 388 37 51,4 Uxbridge and Northbridge, 223,400 - - 75,800 1,253 23 835,3 Waltham. . </td
Union (Franklin), 145,905 388 37 51,4 United (Springfield), 1,443,246 11,632 75,800 1,253 23 835,3 Uxbridge and Northbridge, 223,400 67,0
United (Springfield), 1,443,246 11,632 75,800 1,253 23 835,3 Uxbridge and Northbridge, 223,400 - - 575 - 67,0 Waltham
United (Springfield), 1,443,246 11,632 75,800 1,253 23 835,3 Uxbridge and Northbridge, 223,400 - - 575 - 67,0 Waltham
Uxbridge and Northbridge, 223,400 575 - 67,0 Waltham
Waltham, 426,600 906 36 112,9
74 800 904 01 00 8
Ware,
Webster, 98,420 - - 364 2 52,5
Westborough, 124,424 - - 332 - 50,9
Westfield, 119,935 411 14 54,2
Weymouth, $ 540,330 - - 1,163 12 169,1$
Whitman, 206,000 - - 622 10 73,9
Winchendon, 125,900 198 198 343 31 35,4
Woburn, 1,045,528 2,824 166 438,2
Worcester, 1,244,330 10,560 - 3,382 - 320,2

The following table shows the number of motors furnished on arc, incandescent and power circuits, not including those for street railways, the number of single and double arc lamps, June 30, 1896, and the number of carbons used during the year ending on that day:—

COMPANY.	Motors on Arc Circuits.	Motors on Incandescent Circuits.	Motors on Power Cir-	Horse-power of Motors.	Number of Single Arc Lamps.	Number of Double Arc Lamps.	Number of Carbons Used.
Abington and Rockland, Adams, Amherst, Amberst, Amesbury, Andover, Athol, Athol, Attleborough, Beverly, Blackstone, Block Plant, Blue Hill (Canton), Boston, Bridgewater, Brookline, Cambridge, Central Mass. (Palmer), Charlestown, Chelsea,	27	2 - 4 145 1	21 	14 		33 -28 6 6 255 10 4 89 36 - 3,493 3 440 462 110 202 210	5,812 11,000 5,000 33,938 19,200 25,000 25,000 5,000 2,687,706 6,000 263,130 348,000 30,000 216,985 130,000
Clinton,	-	-	-	-	59	43	32,869 5,460

	=	-	_						.	
COMPA	NY.			Motors on Are Circuits.	Motors on Incandescent Circuits.	Motors on Power Cir- cuits.	Horse-power of Motors.	Number of Single Arc Lamps.	Number of Double Arc Lamps.	Number of Carbons Used.
Dedham,				-	-	-	_	-	33	15,529
Easthampton, . Rdison (Boston), Edison (Brockton) Edison (Fall Rive), r),	:		-	1,589 52 109	- 16 2	5,131 364 4363	1,112 87	37 253	7,000 258,883 211,500
Fall River, . Fitchburg, . Framingham, . Franklin,	:	:		ī -	17 1 -	7	31 46‡	155 63 2 22	465 224 68	445,000 160,000 18,299 7,000
Gardner, Gloucester, . Greenfield, .	:	:		-	- 10	4 <u>1</u>	131 80 <u>4</u>	51 36 53	68 25 9	23,600 21,000 22,000
Haverhill, . Holyoke, . Hudson, . Hyde Park, .	:	:		-	9 2 - -	59 26 - -	351± 70± -	95 187 20 57	174 237 4 115	128,170 300,000 9,000 45,222
Lawrence, Leominster, Lexington,	:	:	:	- - 2	203 - -	- - 1 <i>5</i> 2	3114	256 28 - 305	180 60 38	163,735 30,976 5,500
Lowell, Lynn,	:	:		- -	-	68 14	852 492 59	305 207 85	376 464 197	424,695 368,600 87,378
Marlborough, Milford, Millbury,	:	:		- 1	- -	9	173	48 90 33	53 5 -	39,816 25,000 7,485
Nantucket, Natick, New Bedford, Newburyport,	:	:		111	- 104 4	11 42 15	56 3457 32	45 192 150	2 37 203 7	8,100 12,500 144,305 43,500
Newton,	:	•		-	7 -	- 24	87 72 <u>4</u>	95 1 54	141 113 26	100,000 90,000 48,000
Orange, Pittsfield, Plymouth, .	:	:		-	30 2	11 21	274 341 <u>3</u>	41 90 34	56 6	13,000 61,655 8,088
Quincy,	•	•	•	-	-	17	118	-	93	32,500
Salem, Somerville, Southbridge, . South Hadley Fall	:	:		18	-	62 8 -	287 661 -	88 38 87 2	235 450 5	167,000 256,575 28,500
Spencer, Stoughton, . Suburban (Revere Suburban (Boston	•	:		-	-	-	-	70 70 22	78	20,000 15,500 23,238
Suburban (Boston Taunton,),	•		-	-	126 7	490 46	183 97	47 123	125,106 100,000
Union (Franklin), United (Springfiel Uxbridge and Nor	d).	idge.		2	-	78 -	539	43 341 69	6 617	9,732 501,144 4,000
Waltham, . Ware, .	•	•		-	2	40	2247	102 54	69 16	81,100 22,000
Webster,	:	:	•	-		-	-	19 32 125	54 13	27,100 10,000 48,500
Weymouth, . Whitman, .	:	:		-	111	-	-	46	39 27	7,854 1,700
Winchendon, . Woburn, Worcester, .	:	:		-		- 8 98	52 466	23 44 292	17 75 530	10,128 57,151 622,428

The following table shows the number of commercial lights of the different kinds installed, and the number of customers for each kind, on June 30 last: --

,																
Number of Customers using only Power.	1	-	ı	9	ı		.7	ı	1 6	.4	•	211		1	7	99
Number of Castomers using both Are and Incandescent Lights.	ı	•	ı	4	,		0	•		•	•	142		•	-	17
Number of Customers using only Commer- ol a 1 incandescent Lights off Are Cir- cuits.	•	1	ı	-	٠.	_	•	ı	1	•	•	7		•		'n
Nominal Candle-power.		1	•	32	ı	228	22	1		•	1	25	}	1	25	225
Number of Commercial Incandescent Lights off Arc Circuits,	•	ı	•	12	ı		39	•	•			4 8	}	'	**	2:
Number of Customers using Commercial Incandescent Lights.	319	88	116	104	117	=:	253	5 °	9	288	25	218		7.	400	909
Yominal Candle-power	16	18	18	28	228	19	91	9;	9:	91	- 12	18	16)	223	16	32 }
Mumber of Commercial Lights.	6.539	292	1,545	28 28 28	2,922 2,822 8,022 8,022	375	250	1,428	2	1,785	3,200	629,03	019'1	8.0	22,002	888
Number of Customers using Commercial Arc Lights.	1	,	ı	0 0	ı	-	=:	27	ı	,	•	727		-	01	35
Nominal Candle-power.	ı		ı	1,200	1	1,200	98,	1,200	ı			200 200 200 200 200 200 200 200 200 200	2006	2,000	2,000	1,200
Number of Commercial	1	ı	•	19	ı	64	54		•	•		882		-	33	\$
		•	•	•	•	•	•	•	•	•	•	•		•	•	
		•		•	•	•	•		•	•				•	•	•
	÷		•	•	•	•	•	•	•	•	•			•		•
COMPANY	klan		•		•		•		•	•	÷	•		•	•	•
COMI	Boc				•					•	Canton)					
	Abington and	Adams.	Amberst,	Amesbury,	Andover,	Athol, .	Attleborough	Beverly,	Slackstone,	Block Plant,	Blue Hill (Ca	Boston, .		Bridgewater,	Brookline,	Cambridge,

_			16 9			_				214 607		82	109	- 14	2			1		7 36	•	1	4	
_	84	*	1		61	1	•	•		1		•			-	-			•	•	,	1	1	
_	8	ន្លន	3'	,	ន	1	•	t		1		1	1	1	1	28 28	ì	1	8	200	3'	1	•	
	80		 , i	1	*	1	1	,		•		,	,	•	•	21.8	·	1		20) I	•	ı	
	208	7	364	110	\$	8	1	181		3,449		384	635	8	147	191		8	88	180	31	106	135	
log	2848	18	16	16	16	16	•	91	,	92		91	16	16	16	228	នន	18,	16	16	36	16	• 23	16 J
8	2,376 1,441 9,776	1,286	4,800	8,692	2,300	1,526	ı	8,038		114,354		7,761	11,000	1,699	3,000	2,870	8 <u>3</u>	350	8,800	2,616	162	038.	200	2,400
	•	\$	ន	4	-	•	2	*		419	;	13		8	61	G.		1;	ឧ	G.	,	•	4	
-	1	2,000	1,200	1,200	1,200	. 1	1,600	1,200	88	2,200	90,	2,000		2,200	1,88	1,200		1	1,200	1,200	1	1	1,200	
	ı	26	26	12	*	,	15	2	118	88	348	178		94.5	 ?⊏	12		1	19	21	ı	•	13	
	•	•	•	•	•	•	•	•		•		•	•	•	•	•		•	•	•	•	•	•	
	•	•	•	•	•	•	•	•		•		•	•	•	•	•		•	•	•	•	•	•	
	Central Mass. (Palmer),	Charlestown,	•	Church Green (Boston),		•		Dedham,		Edison (Boston),		Edison (Brockton), .	Edison (Fall River), .	Fall River,		Framingham,		•		•	•	Great Barrington,	•	

Number of Customers using only Power.	88	ಜ '	1	99	•	•	-	۱ و 83 ا	\$	2	1 60		1
Incandescent Lights.		ង្គ	- 00	37		_	6	12		40		<u> </u>	
Number of Customers asing both Are and	1												
Number of Customers using only Commercial Incandescent Lights off Arc Circents.	1	۱	1	'	'	1	-	11	64	1 4	ו ס	ı	ı
Nominal Candle-power.	ı	1 15	; I	1	,	1	9 2	1 1	ននេះ	8'8	S '	1	1
Number of Commercial Incandescent Lights off Arc Circuits.	•	21	'	ı	•	1		1.1		۴ ۱۵ ب	1	ı	,
Number of Customers using Commercial Incandescent Lights.	62	148 25	967	453	107	23	277	337	998	963	2,5	79	150
Nominal Candle-power.	16	16	228	8.5	28	1	228	388	16	91	99	*298	228
Number of Commercial Incandescent Lights.	3,500	1,300	6,150	769.7	1,892		25 % 25 % 25 %	2,851 12,000 12,000	10,828	17,824	1,800	22.05.2	*11,128 88
Number of Customers using Commercial Arc Lights.	32	88 ~	. .	8	٠		\$	- 87	8	Φ;	22	1	,
Nominal Candle-power.	1,200	2,000	2,000	2,000	•	1	1,200	2,000	1,200	08,1	3,8		ı
Number of Commercial Are Lights.	36	186 9	47	88		•	88	' 88	211	22	3 23	•	- -
	_			_	•	•			<u>~</u>	_		•	
	١.											•	
													•
ANY.													
COMPANY.							•					•	
Ü	Iaverbill,	lolyoke, Iudson,	[yde Park,	AWrence,		enox, .	eominster,	exington, owell,	ynn,	Islden,	filford, .	lillbary,	filton, .

Nantucket,	•		_	75	1,200	14	1,819	16	101	_	_	-	-	10	1
Natick,				01	1,200	9	2,525	~ 9 9	124	01		82	1	9	9
New Bedford,			<u>~</u>	171	1,200	75	21,071	16	731				•	19	125
Newburyport,.	•	•		13	1,200	•	107	288	17	~~~		823	67	-	16
Newton,				103	1,500	-8	9,691 4,750	2 2 2	223	, 181		, ' 8	1 1	' ឡ	Im
Northampton, Orange,				ಣ '	1,200	Z 1	8,1 908,1 008,1	9 9	212 1 46			1 1	1 1	12	ю і
Pittsfield, .		•		88	1,200	ន	9,779	18	458	~~~		~~ 88	1	8	ĸ
Plymouth,		•		ន	1,200	7	2,868	91	140	~~			•	7	10
Quincy,		•		89	1,200	80	3,700	70 91	284	· '		3 .	,	m	œ
Rawson (Leicester),				•	1	•	1,700	9	89	'		,	ı	ı	•
Salem,		•		136	2,000	8	10,513 661 865 865 166 166 166 166 166 166	~~5288234	829			25 25	–	8	2
Somerville,	•		<u>.</u>	49	1,200	17	8,635	125	368	84		 ജ	9	13	16
Southbridge,				æ	1,200	6	888	288	79			•	•	ıc.	ı
South Hadley Falls,			-	616	, 8			92	88	<u>'</u>		1	'	-	ı
Suburban (Revere),				។ ដ	1,200	- O3	8,824	1 29	28			1 1		11	
			-	-	-	-	-	-			-	-		-	

¹ Number not known.

•														L -
Number of Customers using only Power.	11	•	1	8	1	12	•	1	•	•	•	t	ı	చి చ
Number of Customers using both Are and Incandescent Lights.	23	12	•	3	ı	=	2	63	•	œ ·	 (-	\$	9 8
Number of Customers using only Commer- ols? Incandescent Lights off Arc Cir- cuits.	1	1	•		1	-	•	1	1	ı	•	,	t	- 1
Nominal Candle-power.	388	` '	•	25.53	1	8	,	•	1	•	ı	•	1	9 2 '
Number of Commercial Incandescent Lights off Arc Circuits.	20	· ·	•	~~ **8	ì '	61	•	1	1	,	ı	•	•	- 1
Number of Customers using Commercial Incandescent Lights.	333	113	12	258	216	249	88	8	136	12	218	8	ಪ	337
Nominal Candle-power.	16	16	16	16	91	~~ 92	91	91 08	18	92	23	99	2888	225
Number of Commercial Incandescent Lights.	10,966	4,308	2,768	19,608	3,300	4 , 88,8	1,270	25.55	8,843	283	95		1,089 240 6 8 8	7,562 13,361
Number of Customers using Commercial Arc Lights.	**	88	8	62	•	81	∞	61	1	92	- 5	=	01	102
Nominal Candle-power	2,000	1,200	1,200	1,200	ı	1,200	1,200	1,200	1	2,000	88	1, W	1,200	2,000 000,7
Number of Commercial Are Lights.	228	82		387	1	84	83	=======================================	•	32	, ,	3	16	19
	•	•		•	•	•	•	•	•	•	•	•	•	• •
	•	•	•	•		•		•	•		•	•	•	
<u>.</u> :		•	•	•	fdge	•	•	•	•	•	•	•	•	. •
COMPANY.	🚡			Id)	rthb	•	•	•	•		•	•	•	
COKI	oeto		klin)	og fle	No.			•	<u>.</u>			•	•	
•	(9)	:	Franl	Sprk	6 800	á	. •	_	ough		휴		idon,	: 1
	Suburban (Boston),	!annton;	Union (Franklin), .	United (Springfield),	Uxbridge and Northbrid	Waltham,	Ware,	Webster,	Westborough	Westfield	Weymouth	/ Distolati	Winchendon,	Woburn, . Worcestor,

The following table shows the number of public lamps of each candle-power in use June 30, 1896, and the price paid, also the average number in use with the average number of hours per night, and nights per month that they were run during the year ending on that date: ---

COMPANY.		-	Number of Public Lampa.	Nominal Candle- power.	Average Daily Number.	Number Number of Hours per of Nights per Nights Month.	Number of Nights per Month.	Paics Paid.
Abington and Rockland,			379	1.200	376	5.1	23.4	\$14 per year.
Adams,		<u>-</u> -	3	1,200	9	8.4	28.7	\$75 per year.
Amberst,		·	88	8'8	និន	8.4	22.2	\$30 per lamp per year. \$21.43 per year.
Amesbury,		~~	612	1,200	219	5.9	21.7	830 per year.
Andover,	•		828	1,20g	83	4.6	83.3	\$3,700 per year for 31 arcs and 73 incandescents. \$17,50 per year for each additional incandescent light.
Athol,			212	130	27	4.8	25.8	Sib per year.
Attleborough, Beverly,	• •		. 2 8	08 08 08	87.7	6.1	25.23 25.03 25.03	875 per year. 30 cents per night.
Blackstone,	•	<u>.</u>	91 8 8	2,000	₹ 8	101	30.3	\$140 per year for an arc lamp, — four 32 cp. lamps equiva- lent to one arc lamp.
Blue Hill (Canton), .			84	2,000	8 4			\$5,800 per annum for all lights and exemption from taxes.
Boston,	•		2.159 2.159	2.000	2,079	10.5	30.5	Average, for incandescents, 8 cents per 16 c.p. lamp for ten bours: for arcs. 35 cents per light per night.
Bridgewater,	•	•	8	2,000	32	4.7	24.1	\$70 per year.

¹ No record.

² No record; moon schedule.

Number of Nights per Month.	\$65 cp. at 20 cents per night, other incandescents \$36 per year \$0.5 \{ 40 cents per night,	30.6	24.2 \$15 per year.	30.5	28.5	23.2	28.3	78.0	200 at \$90, others \$85.50 per year.	30.6 5.5	24.3 (\$17.50	25.9	24.4	21.2 July 1, 1895, to March 1, 1896, \$21 per light per year; March	- F
Number of Hours per Night.	10.5	10.7	4 8	10.4	10.3	6.4 0.6	7.8	8.7	7 7	10.8 9.5	5.3	6.0	4.4	6.3	
Average Daily Number.	14	236 236 462	88.8	88	170	8	870 }	37	227	424 208	828	28	~~ 22 29	9	
Nominal Candle- power.	85836	2,000 1,200 1,200	308	2,000	28	86	1,200	1,200	1.200	1,200	326	2,000	1,200	83	
Number of Public Lamps.	14	271 462	246	228	172	- 824 4	~~ 48	37	282	218	242	នន -	228	*	
	•	•	•	•	•	•	•	•	•	• •	•	•	•		•
		•	•	•		• •	•	•	•	•	•	•	•		ter,
INY.	•	•	Imer)	•		• •	•	•	•	•	•	•	•		Gloncest
COMPANY.		•	. (Pa	•		• •	•	٠.	ckton		•	•	•	_	<u>6</u>
3	Brookline, .	Cambridge, .	Central Mass. (Palmer)	Charlestown,	Clinton, .	Cobasset,	Dedham,	Easthampton,	Edison (Brockton),	Fall River,	Framingham	Franklin.	Gardner,		Gloncester

\$12 per year.	Schrod per mouth 101 to samps.	\$74.03 per year.	38 cents per night in Haverbill. 39 cents per night in Bradford.	\$100 per year, 5 cents extra per light per night for mast-arm	\$100 per year.	Seven-year contract 105 arcs for \$7,000 per year; additional lights per year, arc, \$70, incandescents, \$16.	\$1.50 per month. \$2.25 per month.	\$7.50 per month.	\$150 per month.	So. 50g per month.	\$5.41% per month.	\$12.50 per year.		\$4,000 yearly contract for 37 arcs and 118 incandescents,	118 mm mm	35 cents per night.	\$20 per year.	\$146 per year.	#16 per year. #72 ner year.	\$72 per year.	\$16 per year.	\$72 per year.	
24.2	0.77	25.4	29.1	30.5	30.5	26.1	6	9.00	30.5	6.22.0	27.5	23.5	28.1	2	3	30.5	29.1	30.5	0.02	20.0	28.4	-	
2.0	e:	8.4	10.1	10.8	8.3	5.4	10.4	10.5	6.2	8.9 8.0	6.0	.!	8 8		-		8 6	10.7	6.7	7.9	49	•	
72	106	- æ	170	236	4	4 :1	, 81.82 8.83 8.83 8.83 8.83 8.83 8.83 8.83 8	~~ \$6	41	=-	35	102	~~ 88 88	125	37 (425	1,122	249	4 2	4.1	ຂ	786	
 88	700	1,200	2,000	1,200	1,200	2,003 2003 2003	8	1,200	888	26 26 28 28	1.200	8	1.200	~ 8	1.200	2,000	នន	2,000		1.200	22	1,200	
8	701	- 2	174	82	14	Z <u>7</u>	642	88	3 🕶 9	æ-	188	102	200	22:	- K	#	1,151	223	* \$	3	8	88	
-	•	•	•	•	•	•		•			•	•	•	_	•	•		. =	-	•		<u> </u>	
											ŗ,												$\ \cdot$
	ringron, .			•	•			LAWrence,	Methnen.		North Andover,	•					Lenn		abant,	Saugus	Swampaortt	. (1000	
Grafton,	dies par	Greenfield, .	Haverhill,	Holyoke,	Hudson,	Hyde Park			Lawrence,			Lee,	Leominster,	Toute	rexingon, .	Lowell,	_	<u> </u>	Lynn, Nahant, .	<u>8</u>	á	2	

1 Dark to 1 a M.; no record.

2 Moon schedule; no record.

3 Moon schedule; no record.

4 Every night; no record.

5 Prom July 1, 1896, to March 1, 1896, area burned 25 nights per month all night; incandescents every night to 12.30 a.m. From March 1 to July 1 all lights 20 nights per month to 12,30 a.m.

7 Dark to daylight; no record.

Number of Nights por Month.	22.7 \$2.2 per month. No charge for 65 candle-power lamps. \$75 per year.	30.5 \$24 per year to 1 o'clock A.M. \$24 per year. \$25 per year.	25.0 \$20 per year.	30.5 S cents per night.	25.7 875 per year for 40 lights, \$60 each for all over 40.	~	30.5 \$20.50 per year. Piret 59 arc lights \$82 each ner year: others, \$75 ner year	22.5 \$18.64 per year.	21.5 \$812.60 per year.	26.6 \$15 per year.	(15 per year.	10.5	2 2 2	80.6 \$24 por year. 35 cents per night.	
Number of North Night.	4.2	10.9	0.0	6.7	5.4	4.9	6.5	5.5	3.7	6.4		6.0		10.5	
			~~~	<u></u>			~~~	~~~							_
Average Dally Number.	1 4 4 4 1	న్ల ని <u>స</u>		≈ <u>≃</u>	4.9	48	~~~	ត្តស		**************************************	ដ្ឋឥ	158	ģ.	45	
Nominal Candie- power.	25 32 1,200	888	200,2	38	2002	1.200	2002	1,200	888	1,200	800	200.25	1 20 S	1886, 1890,	
Number of Public Lamps.	~~~ \$~ <b>4</b> \$	~~~	~~~		_  88	∓8	~~ 28~	₩¥;		~~ \$8	ន្ទន	 692	318	~~ \$\$	
	•	•	•	•	• •	•	•	•	•	•	•	•	•	•	_
	•	•	lge,	•	• •	•	•	.•	•	•	•	•	•	•	
COMPANY.	nklin), .	United (Springfield), .	Uxbridge and Northbrid	•				•	•		Stoneham,	Winchester,	Woburn,.	•	
	Union (Franklin),	United (Spr	Uxbridge as	Waltham,	Ware, . Webster,	Westborough,	Westfield,	Weymouth, .	Whitman,	Winchendon,		Woburn,		Worcester, .	

The following table shows the price charged by the several electric light companies for commercial lights on June 30, 1896:—

late,	Remarks.	ontract,	Ten per cent. discount if paid before the 16th of the mouth; customers pay for wiring and re-	newals. Renewals free; wiring in stores and offices free, in dwellings at cost.	it, \$81.00 per
ARC LIGHTS.		Rates by Contract.	•	•	3 nights per week, each lamp, \$67.00; 4 nights, \$63.00; 5 nights, \$75.00; 7 nights, \$81.00 per year.
JOHTS.		Rates by Contract.	ı	For 16 c. p. lights for business places open 6 nights per week until 11 r. m., \$12.00; open 4 nights per week,	\$9.00 per year.  10 c. p. lamps, 3 nights per week, \$7.00 per year additional for each additional night per week; 16 c. p. lamps, 3 nights per week, \$6.00 per year additional for each additional for each additional for each additional for each additional for each additional for each additional for each additional for each additional for each additional for each additional for each additional for each additional for each additional for each additional for each additional night
INCANDESCENT LIGHTS.	4	Per 16 Candle-power Lamp Hour.	l cent,	ı	•
	RATES BY METER.	Per Ampere Hour.	ı	1 cent, .	1
		Per Kilowatt Hour.	1	ı	•
	COMPANY		Abington and Rockland,	Adams,	Amesbury,

	$\  -$		1	INCANDESCENT LIGHTS.	JCHT8.	ARC LIGHTS.		, 2
ANTAMOS		74	BATES BY METER.				Verne de la composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della	
	14	Per Kilowatt Hour.	Per Ampere Hour.	Per 16 Candle-power Lamp Hour.	Rates by Contract.	Rates by Contract.	POTTER S	G.
Amesbury — Con.,	•	1	t	ı	per week; 32 c. p. lamps, 3 nights per week, \$16.00 per year, and \$2.00 per year additional for each addi-			IO AII
Amberst,	•	ı	l cent,	1	tional night per week. Contracts based on meter rate.	ı	Dwelling-house wiring at cost; commercial wiring	10 10
Andover,		24 cents, .	•	ı	ı	ı	sumer's expense. A few lights by contract. Wiring stores, free, all	
						•	other places, from \$2.50 to \$6.00 per outlet; renewals on contract lights free.	LILLO
Athol,	- 20	20 cents, .	1	1	\$15.00 per lamp per year for \$75.00 per lamp per year. 32 c. p. lamps.	\$75.00 per lamp per year.	Arc lights are 1un only when street lights are	LIU
Attleborough, .	. 25	25 cents, .	1	ı	90 cents per lamp per month.	5 cents per inch of carbon burned.	used. Customers by meter pay for all incandescent lamps. Renewals free	111.
Boverly		25 cents, .	ı	ı	16 c. p lamps, 7 nights per week, \$1.16\$ per month; 6	40 cents per night. Discount of 10 per cent. If paid on or	to contract customers. Customers pay for wiring and renewals.	
					nights per week, \$1.00 each per month; five nights per week, \$3 cents oach por month; 4 nights per week,	before the 16th of the month.		Lagn.

	Customers pay for wiring.	Open wiring \$2.00 per outlet; \$3.00 per outlet con-	Inside incandescent wiring charged to customer at cost; almps furnished and renewed free except those broken by customer.	Wirlog \$2.00 per lamp, open wiring; \$2.75 per lamp for concaded work. Lamp renewals free to contract customers; to meter customers 35 cents per lamp.
	1	ı	I lamp for 12 months, 75 cents; for 6 months, 80 cents per day; 2 lamps for 12 months, each 70 cents; for 8 months, each 70 cents; for 8 months, each 75 cents per day; 3 or 4 lamps for 12 months, each 66 cents; for 6 months, each 60 cents; for 6 months, each 60 cents; for 6 months, each 60 cents; for 6 months, each 60 cents; for 6 months, each 65 cents; for 6 months, each 65 cents; for 6 months, each 55 cents; for 6 months, each 75 cents; for 6 months, each 75 cents; for 6 months, each 70 cents; for 6 months, each 70 cents; for 6 months, each 70 cents; for 6 months, each 70 cents; for 6 months, each 70 cents; for 6 months, each 70 cents; for 6 months, each 70 cents; for 6 months, each 70 cents; for 6 months, each 70 cents; for 6 months, each 70 cents; for 6 months, each 70 cents; for 6 months, each 70 cents per day; for 6 months, each 70 cents per day; for 6 months, each 70 cents per day; for 6 months,	each 65 cents; for 3 months, each 66 cents per day. \$70.00 per lamp per year.
874 cents each per month;		\$10.00 per light per year.	125 c. p. lamps for 12 months, each lamp 50 cents per day; 65 c. p. lamps for 12 months, 30 cents per day; 32 c. p. lamps for 12 months, 20 cents per day.	\$10.00 per year for each 16 c. p. lamp.
-		l cent, .	1 cent, .	,
	•	ı	1	1 cent, .
	16g cents, .	•	ı	ı
	•	•	•	•
	Block Plant,	Blue Hill (Canton),	Boston,	Bridgewater, .

		1	INCANDESCENT LIGHTS.	исите.	ARC LIGHTS.	
COMPANY	<b>A</b>	BATES BT METER.	d			Remarks
	Per Kilowatt Hour.	Per Ampere Hour.	Per 16 Candle-power Lamp Hour.	Rates by Contract.	Rates by Contract.	
Broakline,	ı	1	1 cent, .	Lights burning until 7.30 P.M., \$12.00 each per year; until 8.30 P.M., \$15.00 each per year; until 11.30 P.M., \$18.00.	For lights six nights per week not later than 6 r.w., \$21 per month, September to March, not later than 7 r.w., \$27.00 per year or \$3.25 per year or \$3.25 per month, September to March, \$1.00 per year or \$3.25 per month, pril to August, not later than 8 r.w., \$42.00 per year or \$3.50 per month, not later than 9 r.w., \$68.00 per year, not later than 11 r.w., on Saturdays and five other nights burning until 11 r.w. on Saturdays and five other nights per week, not later than 6 r.w., \$33.00 per year or \$4.00 per year or \$4.00 per week, not later than 6 r.w., \$33.00 per year or \$4.00 per week, not later than 6 r.w., \$33.00 per year or \$4.00 per month, April to August, not later than 7 r.w., \$37.75 per year or \$4.25 per month, \$9.70 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per month \$69.75 per year or \$4.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25 per year or \$6.25	Lamps free to contract customers only.
					month, April to August; not later than 8 P.M., \$45.00 per year or \$4.00 per month; not later than 9 P.M., \$62.00	

1091.]	PUBLIC	DOCUME	NI —	No.	<i>5</i> 3.	169
	Consumers pay for lamps and wiring. Fifteen per cent, discount from meter rates on bills paid before the 15th of the month.	Wiring at cost. Renewals in private houses 25 cents per lamp, elsewhere free.	Lamp renewals free.	First lamp free; renewals 25 cents each.	Renewals free.	Wiring at cost; renewals free.
per year or \$5.17 per month; not later than 10 r.w., \$75.00. For lights burning not later than 11 r.w., seven nights per week, \$100 per year. Alinghiarca 50 cents; to 11 r.w., 30 cents per night. Temporary arca \$1.00 per	To 9 o'clock, 6 nights per week, \$84.00 per year; to 12 o'clock, 6 nights per week, \$100.00 per year; to 12 o'clock every night \$120.00	rear fact hear.	50 cents per night per light.	40 cents per lamp per night until 12 P.M., 26 cents until 6 30 P.M.	5 cents per lamp hour.	One light, \$8.33 per month; 2 lights, \$7.50 each; 3 lights, \$7.00 each; 4 or more lights, \$6.50 each.
		10 c. p. lamp to 9 o'clock, burning 4 nights per week, \$5.00; 16 c. p. to 9 o'clock, burning 4 nights per week, \$8.00; 20 c. p. to 9 o'clock, burning 4 nights per week, \$9.00; 24 c. p. \$10.00 per	year.  50 cents per night per group of 8, 16 c. p. lamps run- ning an average of about 6	16 c. p. lamps, \$1.25 each per month for stores.	Discounts on bills of \$100.00 per month, 25 per cent.; on bills exceeding \$100.00, from 30 to 50 per cent. sc-	\$1.00 per light per month.
	ı	1	1	1 cent,	1 cent,	14 cents, .
	l cent, .	1	t	•	1	ı
	16g cents, 1 cent,	•	•	1	•	
	•	Jer),	•	•	•	•
	•	(Paln	•	•	•	.
	•	fass.	E	•	reen,	•
	Cambridge,	Central, Mass. (Palmer),	Charlestown, .	Chelsea, .	Charch Green,	Clinton, .

		I	INCANDESCENT LIGHTS.	,10нтв.	ARC LIGHTS.	
COMPANY		RATES BT METER.	, nj			
	Per Kilowatt Hour.	Per Ampere Hour.	Per 16 Candle-power Lamp Hour.	Rates by Contract.	Rates by Contract.	
Cohasset,	22 cents, .	ı		Special contract rates for each	ı	Customers pay for re-
Cottage City,	t	•	ı	customer.	Single lights, \$50 00 per season of \$2 days. 2 lights,	newals.
Dedham,	20 cents, .		•	Contracts based on \$10.00 per lamp per year burning	\$10.00 each. \$70.00 per year per lamp.	Customers pay for renew-
Edison (Boston),	ı	'	1 cent, .	until 10 F.M.	2,000 c. p., 11 cents per lamp per hour; 1,200 c. p 10 cents	ᆚ
Edlson (Brockton),	20 cents, .	, t	l cent,	ı		Lamp renewals free.
Edison (Fall River), .	ı	•	1 cent, .	ı	#9.00; 7 nights, \$10.00.	므므
Fall River,	15 cents, .	•	1	1	First 3 lights, \$7.00 each per month; next 4 lights, \$6.00	rencwals free Lamp renewals free.
Flichburg,	20 cents, .	ı	•	\$1.50 per month, for each 16 c. p. lamp.	ceding light, \$6.00 ceeding light, \$6.00 one light, \$ nights per week, \$6.00 per month; 2 or more	Wiring free; customers pay for lamps and re-
					lights, 87.00 per month each; 1 light 6 nights per week, 80.00 per month;	

No free wiring; renewals free.	Wiring and renewals free.	Incandescent lamp renewals free to meter customers, wring at customer's expense. Discount from regular rates on arcs and incandescents of 10 per cent if neith before the	10th of the month. Wiring at cost; renewals free to contract customers ers; to meter customers	Customers charged for wir-	Customers charged for wir- ing and lamps.	Lamp renewals free to meter customers, at cost to contract customers. Wiring at cost.
2 or more lights, 6 nights, 88.00 per month each; 1 light, 7 nights per week, \$10.00 per month; 2 or more lights 7 nights, \$9 00 per month each.  Byery night, \$8.00 per lamp per month; 3 nights per week, \$6.00 for first, \$6.00 for each additional lamp.	ı	For yearly contract, 6 nights per week, \$77.78 per lamp; 5 nights, \$65.55; 4 nights, \$55.55.  Two ares under contract, 5 per cent. of regular price. These or more ares under contract, 184 ner east off regular price.	lar price. Running every night, \$8.00 per lamp per month; 6 nights per week, \$7.00. Temporary in the so one per price to one per price to one per price to one per price to one per price to one per price to one per price to one per price to one per price to one per price to one per price to one per price to one per price to one per price to one per price to one per price to one per price to one per price to one per per per per per per per per per pe	· · · · · · · · · · · · · · · · · · ·	ı	l cent for 64 watt hours.
Every night, \$1.00 per lamp per month; 6 nights per week, 90 cents.	Four nights in the week to 9 P.M., \$7.00 per year; 6 nights in the week to 11 P.M. \$10.00; 7 nights, \$11.00 per lemp.	Sons, \$7.50, \$9.50 or \$10.50 per lamp per year, for 4, 5 or 6 nights per week.	\$1.00 per month for each 16 c. p. lamp.	\$10.00 per year for each 16	Over 400 ampere hours per month, the rate is § cent	per ampere nour.
1	•	1	1	•	,	l cent,
1	ı	t	1	I cent,	l cent, .	1
1	ı	26 cents. 50 cents for shope and factories. running until 6	18 cents, .	ı	ı	ı
<b></b>	Franklin (Turner's Falis),	Gardner,	Gloucester,	Grafton,	Great Barrington,	Greenfield,

			N N	INCANDESCENT LIGHTS.	10HTS.	ARC LIGHTS.	
ANTANOO		EAT	RATES BY METER.				Remarks.
	KII0 Ho	Per Kllowatt Hour.	Per Ampere Hour.	Per 16 Candle-power Lamp Hour:	Rates by Contract.	Rates by Contract.	
Haverhill,	. 20 ce	20 cents, .		ı	1	Outside lights \$8.00 each per month. Inside lights, 3 or less, \$6.25 each per month;	Wiring at cost; renewals free.
						4 to 6, \$6.00 each; 7 to 10, \$6.00 each. Temporary lighting, 50 cents per light	
Holyoke,		<u> </u>		14 cents, .	1		Arc wiring free; incandes- cent renewals at cost. Discounts from 5 to 334
		_				F.M., other nights to 6.30 F.M., \$75.00; 3 nights until 10.30 F.M., other nights to	per cent., according to amount used.
Hudson,	•			1 cent, .	\$1.00 per lamp per month.	onth,	Customers charged for
Hyde Park,	. 20 ce	20 cents, .		ı	\$10.00 each lamp per year	\$70.00 per lamp per year.	No free wiring; customers
Lawrence,	. 18 ce	18 cents, .	ı	1 cent, .		Two nights per week, May to Sentember, \$5.50, balance	Discount for incandescent
						of the year, \$6.00 per lamp per month; 3 nights per	
						week, \$6.00; 4 nights, \$7.50; 6 nights, \$8.00; 7 nights,	
						\$9.00.	
Lee,	- S	20 cents, .	1	ı	75 cents per lamp per month.	ſ	Wiring and renewals at
	_	-					CHIEFOLD B CONTROL

Wiring and renewals at	customer's expense. Renewals at customer's expense. Wiring at coet.	Wiring and renewals at customer's expense. Discounts if bills are paid on or before the 10th of the month; on monthly bills of \$10.00 or less, 10 per cent.; over\$10.00 and less than \$20.00 and up to \$30.00. Diperson; \$20.00 and up to and over ''s cent.; \$20.00 and up to and over ''s cent.; \$20.00 and up to and over ''s cent.; \$20.00 and up to and over ''s cent.	Wirling and renewals at customer's expense.	Renewals free, on contract lights only. Wiring at customer's expense.	Lamps and renewals for contract lights free. For metered lights no free renewals. Twenty per cent. discount on bills paid before 15th of current month.
1	\$72.00 per lamp per year, run- ning 7 nights per week, until 11 r.w. \$50.00 per year, 3 nights, until 11 p.w.	•	\$10.00 per lamp per month, burned 6 nights per week; 50 cents per lamp per night for irregular burning; on yearly contracts from \$8.00 to \$7.50 per lamp per month, graded according to number of lamps and pichts burned.	One light 6 nights per week to the w., Inchit to 12 r. w., \$9.00 per month; 5 nights to 11 r. w., 1 night to 12 r. w., \$88.00; 4 nights to 6.30 r. w., 1 night to 11 r. w., and 1 night to 12 r. w., \$6.00 per month.	For I light \$10.00 per month; for 2 lights, \$8.33 each. Special rates for larger numbers, according to hours burned.
•	Lights running until 10 o'clock, \$10.00 each peryear; until 12 o'clock, \$12.00; all night, \$18.00.	1	\$1.00 per lamp per month.	\$1.00 to \$1.25 per lamp per month.	\$1.00 per lamp per month for 16 c. p. lamps; all night \$1.50 per month; special reduced rakes where many lights are used.
•	ı	•	ı	1	•
1.1 cents, .	ı	•	1	1	1
ı	20 cents, .	27 cents, .	10 cents, .	l6 cents; 14 to 124 cents to large con- sumers.	25 cents, .
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
Lenox, .	Leominster,	Lexington,	Lowell,	Lynn,	Malden, .

		I	INCANDESCENT LIGHTS	JOHTS.	ARO LIGHTS.	
ANTANCO	*	RATES BY METER.	نم			e mag
	Per Kilowatt Hour.	Per Ampere Hour.	Per 16 Candle-power Lamp Hour.	Rates by Contract.	Rates by Contract.	
Marlborough,	25 cents, .		t	16 c. p. lamps in stores closing 3 nights a week at 6 P. w., \$10.00 per light per year; in stores averaging 6 nights per week until 9 p. w. \$12.00 c. mrittly we	Burning 6 or 7 nights, 1 light, \$8.50 per month; 2 or more, \$7.50 each; 3 nights per week, 1 light, \$7.50 per month; 2 or more lights,	Wiring at cost and re- newals free.
Milford,	28 cents for residences, 25 cents for stores.	•	1	\$13.60; until 12 F.W., \$15 00 per lamp per year. Where bill is less than \$2.00 per mouth, meter renual of from 15 to 50 cents per month, according to size of meter.	Outside use, 6 or 7 nights per week. April to October, 86.67 per lamp per month; October to April, \$10.00. Inside use, April to October, 1 lamp 6 or 7 nights per week, 88.00 per month; 9 lamp 6 or 7 nights per week, 88.00 per month; 9 lamps	Wiring and renewals at customer's expense. In atores, discounts on monthly bills for from 20 to 30 kilowatt hours, 1 cent per kilowatt hour; 60 to 40 kilowatt
					or 7 nights per week, \$4.50; 3 lamps 6 or 7 nights per week, \$20.50; 4 lamps 6 or 7 nights per week, \$25.50 per month. From October to April, 6 or 7 nights per week, 1 lamp, \$12.00; 2 lamps, \$21.50; 3 lamps, \$21.50; 3 lamps, \$21.50; 2	hours, 2 cents; 40 to the kilowatt hours, 3 cents; over 50 kilowatt hours, 4 cents.
Millbary	20 cente, .	•	1	Running until 10 r.m., \$10.00 per lamp per year.	month.	Wiring at customer's ex- pense. Lamps free to contract customers only.

Milton,		8	20 cents,			One cent per 16 c. p. lamp-		Wiring and renewals at
Nantucket, .	•	-	1	1	,	per 16 c. p. lamp per	\$100.00 per light per year.	customer's expense. Wiring at cost.
Natick,	•		ı	1	1	First three lamps, \$1.20 per month each; second three, \$1.00; third three, \$0 cents; fourth three, \$0 cents; dourth three, \$0 cents; addi-	First light, \$8.00; 2d light, \$7.00; 3d light, \$6.00 per light per month.	Wiring at cost. Renewals free.
New Bedford,	•	•	1	1 cent,	. 1 cent,	Tional tamps, of conto each.	Various contracts on the basis of 5 cents per bour, and rent of lamp at \$5.00 to \$10.00 per year.	Discounts for payment on or before the 10th of the month on bills of \$8.00 per month and under for metered lights, 5 per cent.; \$8.00 to \$10.00 to \$20.00, 15 per cent.; over \$20.00, 15 per cent.; over \$20.00, 15 per cent.; over \$20.00, 15 per cent. for pr on pt p aym on t.
New bury port,	• .	•	1	ı	<b>'</b> 1	Series incandescent lights, 65 c p., 4 to 7 nights per week, 1 lights, \$5.70 per month; 2 lights, \$4.75 each; 3 lights, \$4.75 each; 3 lights, \$4.50 each; 0 no to 3 nights per week, 1 lights, \$3.50 per month; 2 lights, \$3.50 each; 5 lights, \$3.72 each; 4 lights, \$3.72 each; 5 lights, \$3.72 each; 6 or more, \$2.83 each. Direct current incandescent, 20 c. p. lamps, 4 to 7 nights per week, \$1.25 each per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month; 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights per month 1 to 3 nights 1 to 3 nights 1 to 3 nights 1 to 3 nights 1 to 3 nights 1 to 3 nights 1 to 3	4 to 7 nights per week, 1, light, \$10.00 per month; 2 lights, \$0.00 each; 1 to 3 nights per week, 1 light, \$7.00, per month; 2 lights, \$6.25 each; 3 or more, \$5.67 each.	And renewals free.  Eight per cent. discount from these prices for incandescent lights, and a further discount of 5 per cent. on all bills paid before the 10th of the month. Renewals and wiring at consumers' expense.

		I	INCANDESCENT LIGHTS.	JOHTS.	Авс Lights.	
COMPANY		BATES BY METER.	pi			Remarks.
	Per Kilowatt Hour.	Per Ampere Hour.	Per 16 Candle-power Lamp Hour.	Rates by Contract.	Rates by Contract.	
Newburyport — Con., .	'	ı	ı	week, \$1.00; 32 c. p. lamp, 4 to 7 nights, \$2.00 each		
Newton,	25 cents, .	ı	ı	per week, \$1.60.	25 cents per 1,000 watt hours.	20 per cent. discount if paid on or before the Onth of month. Renew.
North Adams,	17g cents, .	t	• 1	\$12.00 per lamp per year for 6 nights per week; \$10.00 for \$ nights per week; \$89.00 for 3 nights per week.	Single lamp, 40 cents per night; 2 lamps, 30 cents each; 3 or more at 25 cents each.	als and wiring at customer's expense.  Renewals free. Wiring done by customer. Discounts on monthly bills of 50 to 100 kilowatt
Northampton,	20 cents, .	l œnt,	ı	. 1	\$75.00 per light per year burn- ing overy night till 10 P.W.; \$100.00 till midnight; \$80.00	nous, 24 cents per kilo- watt hour; over 100 kilo- watt hours, 34 cents. Lamps on meter at con- sumer's cost; other lamp .
Orange,	17 to 20 cents.	1	t	50 cents to \$1 per lamp per month by contract, accord- ing to number of hours	per light for 2 nights a week	A charge for renewals and wiring.
Pittsffeld,	1	1.2 cents, .	ı	used per week and number of lamps.	For yearly service, burning from dusk untile.30 r.m. six evenings per week, 1 lamp	Customers pay for wiring and renewals. Rate on monthly bills of from

250 to 500 ampere hours, 1.1 cents per ampere hour; 500 to 1,500,1 cent; 1,500 to 2,500, 0.9 cent; 2,500 to 3,500, 0.8 cent; 3,500 to more, forent, 5 per cent. discount on bills paid on or before the fifteenth of the month.
\$108.00, two or more, \$96.00 each; until 6.30 P-M. one evening and until 9.30 P-M. one evening and until 9.30 P-M. five evenings per week, for I kmp \$96.00, for two or more, \$28.00 each; until 6.30 P-M. three evenings and 9.30 P-M. three evenings and 9.30 P-M. three evenings, I kmp \$72.00 each; until 6.30 P-M. three evenings, I kmp \$72.00 verongs, 1 kmp \$72.00 verongs, 1 kmp \$72.00 verongs, 1 kmp \$72.00 verongs, 1 kmp \$72.00 verongs, 1 kmp \$72.00 verongs, 1 kmp \$72.00 verongs, 1 kmp \$72.00 verongs, 1 kmp \$72.00 each; until 6.30 P-M. for fevenings per week, 1 kmp \$72.00 each; until 6.30 P-M. for evenings and 9.30 P-M. for evenings and 9.30 P-M. two or more, \$25.00 each; until 6.30 P-M. three evenings and \$25.00 each; until 6.30 P-M. three evenings, one lamp \$25.00 each; until 6.30 P-M. three evenings, one lamp \$25.00 each; until 6.30 P-M. three evenings, one lamp \$25.00 each; until 6.30 P-M. three evenings, 1 kmp \$25.00 verongs, 1 km

		I)	Incandescent Lights.	GHTS.	•	ARO LIGHTS.	
COMPANY.	M.	RATES BY METER.	E E				Remarks
	Per Kilowatt Hour.	Per Ampere Hour.	Per 16 Candle-power Lamp Hour.	Rates by Contract.	ract	Rates by Contract.	
Pittsfield — Con., .	1	1	•	1		P.M. two evenings, 1 lamp	
						each; until 6.30 P.M. five	
						evenings and 9.30 P.M. one	
			•			or more \$15.00 each For	
						seven months' service from	
						September 1 to April 1, burn-	
						18g from dusk until 9.30	
						one lamp \$79.00, two or	
						more, \$70.00 each; until 6.30	
						P.M. one evening and 9.30	
						870.00 two or more. \$62.00	
						each; until 6.30 P.M. two	
						evenings and 9.30 P.M. four	
			_			evenings, I lamp \$62.00, two	
						6.30 P. M. three evenings and	
						9.30 P.M. three evenings, 1	
						lanıp \$53.00, two or more,	
					-	\$45.00 each; until 6.30 P.M.	
						four evenings and 9.30 P.M.	
						two evenings, I lamp \$45.00,	
						two or more, 657.00 each;	
						until 0.50 P.M. nve evenings	
	_	_	=			lamp \$37.00, two or more,	

	Wiring and renewals at cost.	Renewals and wiring at	customer's expense. Renewals and wiring at	customer's expense. Dis-	fore the 10th of the	month, on bills of \$10 or less. 10 per cent., over	\$10, 15 per cent.
\$27.00 each. The above rates for inside lights. When only outside lights are used, burning every night to 9.30 r.w., I lamp \$108.00, two or more, \$95.00 each per year. Same service from April 10 September 1, I lamp \$35.00, two or more, \$32.00 each. Same service from September 1 to April 1, I lamp \$37.00 each. You or more, \$70.00 each. For outside ares burning every night until 9.30 are used inside, I lamp \$96.00, two or more, \$84.00 per year. Same service April 1 to September 1, I lamp \$32.00, two or more, \$22.00 each. Same service from September 1 to April 1, lamp \$37.00, two or more, \$20.00 each. Occasional service I control of the service from September 1 to April 1, lamp \$70.00, two or more, \$20.00 each. Occasional service I occasional service of the service from September 1 to April 1, lamp \$70.00, two or more, \$62.00 each. Occasional service I occasional service I occasional service II dentily for the or more, \$62.00 each.	30 cents per carbon.	\$78.00 per light per year, moon	scheduje.				
•	Burning 4 nights per week 80 cents per lamp per month; 6 nights per week, 90 cents per month; these rates for 16 c. b. lamps		,				
	ı	1 cent,	•				
	ı	,	•				
	20 cents.	ı	25 cents, .	•			
	Plymouth,	Quincy	Rawson (Leicester), .	,			

		I	Incandescent Lights.	IGHTS.	•	ARO LIGHTS.	
COMPANY.	<b>A</b>	RATES BY METER.	2				Demente
	Per Kilowatt Hour.	Per Ampere Hour.	Per 16 Candle-power Lamp Hour.	Rates by Contract.	Contract	Rates by Contract.	- Politica Pa
Dischald						Ι.	
Fittaneld - Con., .	1	,	1	1	ı	P.W. two evenings, I lamp	
						each; until 6.30 P.M. five	
						evenings and 9.30 P.M. one	
						evening, 1 lamp \$17.00, two	
						seven months' service from	
						September 1 to April 1, burn-	
						ing from dusk until 9.30	
						P.M. six evenings per week,	
						more, \$70.00 each; nutil 6.30	
						P.W. one evening and 9.30	
						P.M. five evenings, I lamp	
						64 ch. until 6 30 ch. two	
						evenings and 9.30 P.M. four	
						evenings, I lamp \$62.00, two	
						or more, \$53.00 each; until	
						9.30 P.M. three evenings, 1	
						lanıp \$53.00, two or more,	
						\$45.00 each; until 6.30 P.M.	
						four evenings and 9.30 P.M.	
						two evenings, I lamp \$45.00,	
						nutil 6 20 p w Hya awantnes	
						and 9:30 P.M. one evening.	
	_	_	_			lamp \$37.00, two or more.	

	Wiring and renewals at cost.	Renewals and wiring at	Customer's expense.	customer's expense. Dis-	fore the 10th of the	month, on bills of \$10 or	### 10 per cent., over
\$27.00 each. The above nates for inside lights. When only outside lights are used, burning every night to 9.30 r.w., I lamp \$108.00, two or more, \$56.00 each per year. Same service from April 1 to September 1, I lamp \$35.00, two or more, \$70.00 each. For outside are burning every night until 9.30 r.w., if incandescent lamps are used inside, I lamp \$96.00, two or more, \$70.00 each. For outside are burning every night until 9.30 r.w., if incandescent lamps are used inside, I lamp \$96.00, two or more, \$84.00 per year. Same service April 1 to September 1, I lamp \$32.00, two or more, \$23.00 each. Same service from September 10 dentil 1 lamp \$70.00 two or more, \$62.00 each. Same service 10 cannary nor hore, \$62.00 each.	30 cents per carbon.	\$78.00 per light per year, moon	scheduje.				
	Burning 4 nights per week 80 cents per lamp per month; 6 nights per week, 90 cents per month; these rates for 16 c. p. lamps		1				
	1	1 cent,	,				
	ı	•	ı				
	20 cents.	•	25 cents.				
	Plymouth,	Quincy,	Rewson (Leicester).	. (/			

	INDANDESCENT LIGHTS.	JCHT8.	Аво Lights.	
RATES BY METER	KETEE.			Demark
Per Ampere Hour.	Par 16 Candle-power Lamp Hour.	Rates by Contract.	Rates by Contract.	
•	1	1	\$11.50 per lamp per month for 7 nights per week to 11 o'clock; \$10.00 per month	Renewals free, except broken lamps. Wiring at cost. For arc lamps
			for 6 nights to 11 o'clock; \$8.50 for 1 night to 11 o'clock, 2 to 10.30 and 3 nights per week to 6 30; \$7.00 for 1 night to 11 o'clock and R night to 11	b per cent, and for incandescent lights 25 per cent. discount for prompt payment.
·	1	1	\$75.00 to \$100.00 per year.	Renewals at customer's expense. Discount on incandescent light bills for payment before the fifteenth of the mouth, 10 per cent, on bills of
1	1	\$10.00 per lamp per year for 6 nights per week until 10 Pr.M.; 7 nights per week	Burning 4 nights per week. \$60.00 per light per year; 7 nights, \$80.00.	\$10.00 and under, over \$10.00, 16 per cent. Wiring at cost.
' 	1	10 lights or more, 10 per cent. less. 6 nights per week to 6.30 p.m., 86.00 per lamp per year; to 6.30 p.m., 2 nights per week, 97.20; to 6.30 p.m., ordinarily and to 10 p.m., ordinarily and to 10 p.m., ordinarily and to 10 p.m.	ı	ber cent, discount on meter bills paid within 6 days. Wiring and regenerals at cost.

1091.]	I OBDIO I	OCOMIE	11 110.	55.
	Renewals paid by customers by meter, others free. Thirty-free cents per kilowatt hour to summer customers. Discount of 20 per cent. for prompt pay-	mont. Renewals free. No wiring.	Discount on incandescent lights about 10 per cent, on 16 lights or more by contract. Wiring at cost; renewals free except	Miring and renewals at customer's expense.
	\$60.00 per light per year. \$10.00 per lamp per month burning until 12 P.M. Sum- mer rates, 55 cents per night per light.	For all day lights, 2,000 c. p., 75 cents per day; for lights dark to midnight, 1 to 5 lights be ocens per light per night; 6 to 10 lights, 45 cents each; 10 lights or	more, 35 cents each.  \$7.00 per lamp per month every night to 10.30 r.M.; \$3.50 per month for 3 nights per week.	Single lamp burning 4 nights per week to 10 r.m., \$60 00 per year; to 12 r.m., \$75 00; \$75.00 per year; to 12 r.m., \$75.00 per year; to 12 r.m., \$90.00.
3 nights per week, \$7.80; to 6.30 p.m. ordinarily and to 10 p.m., 4 nights per week, \$8.40; to 9 p.m., 6 nights per week, \$8.40; week, \$1.00; to 11 p.m.	6 nights, \$11.00. Prices are for 16 c. p. lamps.  84 cents per lamp per month burning until 10.30 p.m.; until 12 p.m \$1.00 per month; until daylight, \$18.00 per lamp.	ı	\$1.00 per light per month.	16 c. p. lamps, every night to 10 P.M., \$10.00 per lamp per year; to 12 P.M., \$12.00; to daylight, \$18.00; 20 c. p. lamps to 10 P.M., \$12.00 per year; to 12 P.M., \$15.00; to daylight, \$21.00. Above 20 c. p., special rates.
	1 1	1	l cent, .	1
	1 1	1	1	1
	25 cents, .	20 cents, .	ı	20 cents, .
	• •	•	•	•
	Stoughton, Suburban (Revere),	Suburban (Boston),	Taunton,	Union (Franklin), .

INCANDESCENT LIGHTS.	INOANDESCENT LIGHTS.	INGANDESCENT LIGHTS.	LIGHTS.		Акс Lights.	
COMPANY.	4	RATES BY METER.	1			Remarks
	Per Kilowatt Hour.	Per Ampere Hour.	Per 16 Candle-power Lamp Hour.	Raies by Contract.	Rates by Contract.	
	•	14 cents, .	1	1	Forty cents per light per night until 11 P.M.	Monthly discounts on 500 ampere hours, 20 per cent.; on 1,000, 30 per cent.; on 9,000, 321 per cent.
						cent.; on 4,000, 40, per cent.; on 4,000, 40, per cent. Renewals free when monthly bills average 50 cents ner lamn in-
	1	ı	1 cent, .	\$10.00 per lamp per year.	ı	stalled.
	,	ı	14 cents, .	For 16 c. p. lamps per month, 4 nights per week, \$1.25	6 or 7 nights per week to 12 P.M., I light, \$12 50 per	
				eacn; o nights, \$1.30; o nights, \$1.35. All night lighting, \$2.00 per lamp	month; 2 lights, \$11.874; 3 lights, \$11.25; 4 lights, \$10.624; 5 lights, \$10.00	
				per month.	each; 4 or 5 nights per week, 1 light, \$10.00; 2 lights, \$0.50; 3 lights	
					• മാ	by contract 35 cents per lamp per month. Lamp
						renewals at expense of consumer.
	20 cents, .	,	1		Three nights a week to 10.30 F.M., \$50.00 per light per	Wiring at cost; renewals at one-half cost.
	_			11 P.M., \$12.00 per week to	year; 6 nights a week to 11 r.m., \$75.00.	

Webster, .	8 8	20 cents, .   1 cent,		ı	\$0.00 per year for each 20 Burning 6 nights per week, Discounts on arc lights, 2 \$80.00 per lamp per year; 4 lights, 10 per cent.; 3 lights, \$70.00. lights, 5 per cent. On incandescent lights, 6 lights, 5 per cent. 10 lights, 5 per cent.; 10 lights, 5 per cent.; 10 lights, 5 per cent.; 10 lights, 5 per cent.; 10 lights or more, 10 per cent.	Burning 6 nights per week, \$80.00 per lamp per year; 4 nights, \$70.00.	Discounts on are lights, 2 lights, 10 per cent.; 3 lights, 15 per cent.; 6 or more, 20 per cent. On incandescent lights, 6 lights, 5 per cent.; 10 lights, or more, 10 per cent. Wirthg at cost;
Westborough, .	. 20 cents,		ı	ı	\$12.00 per light per year.	I	renewals free for contract lights only. Wiring at cost. Renewals
Westfield,	•		1	1	For one 16 c. p. lamp every infinite translation and translation for month; every night except Sunday until 11 exe. \$1.15; 5 nights until 0 ex. \$1.15; 5 nights until 0 ex.	Two nights to 10.30, 1 night to 12.30 and 3 nights per week to 6.30 P.M., \$5.42 per lamp per month; 1 night to 12.30 and 4 nights	Exposed wiring free; lamps and renewals at consumer's expense.
					F.M., §1.00; 4 nights until F.M., 2 nights until 11 F.M., 85 cents; 3 nights until 6 F.M., 2 nights until F.M., 70 cents per month; 10 c. 0. lanus. 25 per cent.	month; 5 nights to 10.30, 1 night to 12.30 r.m., \$7.75; one night 75 cents per lamp.	
					less than above rates; 20 c. p. lamps, 20 per cent. more		
Weymouth,	-					\$100.00 per light per year.	Consumers pay for wiring
Whitman,	·		1	ı	16 c. p., until 10 P. M., \$10.00 per lamp per year; until	\$60.00 per light per year.	Renewals at customer's expense.
Winchendon,	. 20 cents,			,		\$55.00 to \$75.00 per light per year.	Wiring and renewals at cost.

		1	INCANDEBORNT LIGHTS.	лентв.	ARO LIGHTS.	
COMPANY.	-	BATES BY METER	نم			Remarks
	Per Kilowatt Hour.	Per Ampere Hour.	Per 16 Candle-power Lamp Hour.	Rates by Contract.	Rates by Contract.	
Wobarn,	25 cents, .	1	ı	Six or 7 nights per week, \$12.00 per lamp per year; 6 nights, \$11.00; 4 nights or less, \$10.00.	\$12.00 per lamp per week, \$9.00 per lamp per week, \$10.00 per lamp per year; \$9.00 per lamp per mouth; \$10.00. 4 nights or less, \$10.00.	Discount on incandescent lights by meter, 20 per cent. If paid before the 15th of the month. Wir-
Worcester,	20 cents, . 1 cent,	l cent,	ı	\$1.50 per lamp per month.	Burning until 9 P.M., 40 cents per lamp per night; until 11 P.M., 50 cents; all night, 60 cents. Day lights, 6 cents per light per day.	ing and renewals at customer's expense. Renewals free only to stores that burn dally. Consumers pay for wiring.

### Cases pending before the Board.

Petition of selectmen of Plymouth for a reduction in price and improvement in quality of the lights supplied by the Plymouth Electric Light Company.

Appeals of Bay State Gas Company, South Boston Gas Light Company, Roxbury Gas Light Company and Boston Gas Light Company from an order of the board of aldermen of Boston, passed Dec. 3, 1894, in favor of Brookline Gas Light Company.

Petition of Revere and Winthrop Gas Company for approval of an issue of new stock.

Appeal of Cottage City Gas and Electric Light Company from the decision of the board of selectmen of the town of Cottage City, granting permission to the Martha's Vineyard Electric Light and Power Company to erect poles and wires upon and along certain streets and avenues in Cottage City.

Petition of the Salem Electric Lighting Company for approval of an issue of bonds.

Appeal of the Cambridge Electric Light Company from a decision of the mayor and aldermen of the city of Cambridge, granting to the George W. Gale Lumber Company permission to place electric wires for lighting purposes underground in Albany and Portland streets in said city.

Petition of Haverhill Electric Company for approval of an issue of new stock.

Petition of Hyde Park Electric Light Company for approval of an issue of new stock and of bonds.

Petition of Joseph H. Walker, trustee, that the Edison Electric Illuminating Company of Boston may be required to supply him with electricity for light and power.

Petition of Charles F. Berry and others that the Dorchester Gas Light Company may be required to supply them with gas in Norfolk Street, Dorchester.

Petition of Westborough Gas and Electric Company for approval of an issue of new stock.

Petition of Edison Electric Illuminating Company of Boston for approval of an issue of new stock.

Petition of Chicopee Gas Light Company for approval of an issue of new stock and of bonds.

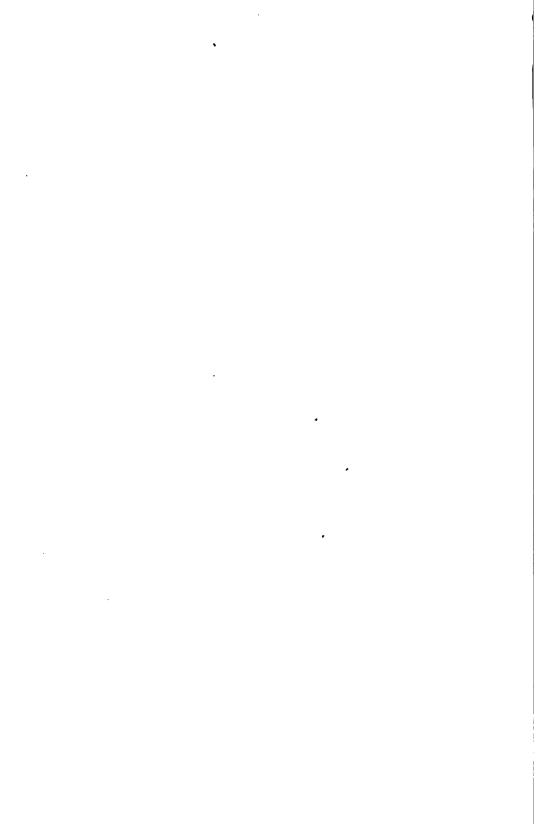
Petition of People's Gas and Electric Company of Stoneham for approval of an issue of new stock.

Respectfully submitted,

FORREST E. BARKER, MORRIS SCHAFF, CHARLES H. GIFFORD.

JAN. 1, 1897.

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## APPENDICES.

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### APPENDIX A.

# Balance Sheets, Manufacturing and Profit and Loss Accounts, to June 30, 1896.

[From the returns made as corrected by the Board.]

### ABINGTON AND ROCKLAND, THE ELECTRIC LIGHT AND POWER COMPANY OF.

				A	88 B T 1	3.							
Real estate,												\$24,684	57
Steam plant,												33,961	97
Electric plant,						.,						30,653	44
Electric lines,												25,331	75
Meters, .												4,526	51
Tools, .												385	<b>72</b>
Tools,  Due for light an	d power,											2,976	74
Fuel on hand,											•	425	00
Carbons on han	đ, .						•			•		106	_
Oil and waste of Incandescent las	n hand,						•	•				19	24
Incandescent las	mps on ha	ınd,	•		•		•	•			•	40	-
TIOLEGE, MEROID	, oc.,	•	•	•			•					456	
Sundry account	s due the	comp	any,	•			•	•	•		•	18	
Office furniture,	•	•		•	•	•			•	•	•	290	
Cash on hand,		•	•	•	•	•		•	•	•	•	4,105	01
Total assets	s, as per b	ooks	of th	е соп	npan	y,						\$127,982	87
						_							
Capital stock,			L	IABII	LITIE	ь.						<b>\$</b> 73,400	^^
Notes payable,		•	•	•	•	•	•	•	•	•	•	44,000	
Unpaid bills,		•	•	•	:	•	•	•	•	•	•	811	
• ,		•	•	•		•	•	•	•	•	•	011	
Total liabili	itles, as pe	ar boo	ks o	f the	comp	any,	ı					\$118,211	<b>2</b> 8
Profit and loss l	balance,		•								•	9,771	59
												\$127,982	87
		M	ANUI	TOAS	BING	Ac	COUN	T.				•	
0										DR.	07	CR.	
Operating exper					•	•	•	•	<b>\$2</b> 3,	355	01	<b>\$</b> 31,363	Λ4
Income from sa					•	•	•	•		007	17	<b>₽</b> 01,000	V2
Balance to profi	r and 1088	,	•	•	•	•	•	•		<u></u>			
					•			_	<b>\$</b> 31,	368	04	<b>\$</b> 31 <b>,3</b> 63	04
		PR	OPIT	AND	LO8	8 AC	OOUN	T.		DR.		CR.	
Balance June 30	), 1895,											88,459	83
Balance of man			ount.									8,007	17
		-							<b>\$</b> 2,	018	17	•	
Interest paid, Dividends decla	red, .									317			
Other items,										360			
Balance June 30									9,	771	59		
									-10	407	~	010 407	~
									\$10	467	w	<b>\$</b> 16, <b>4</b> 67	w

### ADAMS ELECTRIC LIGHT AND POWER COMPANY.

драдо	EL	BC11	RIC.	ш	HI	AND	FU	WEL	COMP	ANI.	
					A881	ETS.					
Real estate, .						•				•	\$4,222 36
Steam plant, .											11,815 31
Electric plant, .	•				•			•		•	6,941 07
Meters, transformer	s and	arc	lamı	08,		•					9,551 40
Incandescent install Due for light and per Fuel on hand,	ation	, .								•	1,817 51
Due for light and pe	ower,										1,137 46
Fuel on hand, .		•									125 00
											24 00
Oil and waste on he	ınd,									•	18 25
Incandescent lamps	on h	and,									15 00
Other materials on	hand,										200 00
Cash on hand, .										•	220 70
Matal aggets an		1		<b></b> .							-2C 000 06
Total assets, as	per	)OOK	B OI	tne c	omp	any,	•	:		•	<b>\$36,088 06</b> 843 20
Profit and loss bala	nce,	•	•	•	•	•	•	•		•	843 20
											\$36,931 26
				L	ABII	ITIES.					• • • •
Capital stock, .	•									•	<b>\$8,500 00</b>
Notes payable, .	•							•		•	13,601 28
Unpaid bills, .	•	:	•	•	•	•		•		•	14,839 98
Total liabilities		o= bo	~L=	~# +h							836,931 26
Total liabilities	, as p	er bu	WAS	OI LE	16 60	mpany	,	•		•	denient w
		Ŋ	LAN	UFAC	TUR	ING AC	TOOU	NT.	Dr		Ca.
Operating expenses									<b>89,47</b> 5		Œ
Income from sale o					•	•	•	•	Φο, ±1 υ	U-E	<b>\$9,566 80</b>
Balance to profit an	y loa	e and	ı pov	ver,	•		•	•	01	26	<b>\$3,000 o</b> 0
Datatice to brone an	u ios	۰,	•	•	•	•	•	•			
		_			_	_			\$9,566	80	<b>\$9,566 80</b>
		P	ROF	MA T	m I	.088 A	0000	NT.	Dr.		Cas
Balance June 30, 18	95								DE.		2114 33
Balance of manufa					•	•	•	•			91 26
Interest paid, .						•	•	•	8854	95	<b>31</b> 20
Other items, .		•	:		•	•	•	•	194		
Balance June 30, 18		•	•	•	•	•	•	•	101	O.	843 20
Dananco vano oo, 10	,,,	•	•	•	•	•	•	•			
									\$1,048	79	\$1,048 79
		TAI	Are i	0.40	* *	знт (	0034	DA MT	7		
	-	ואעו	HO.	UAD	LI	JHI (	COM	PAN:	٠.		
					<b>A88</b>	ETS.					
Real estate, .							•	•		•	\$20,626 01
Machinery and ma	nufac	turin	g ap	pliar	œs,	•		•			6,010 81
Street mains								•			47 48
Meters,				٠.							1,612 29
Due for gas											433 04
Coal on hand, .											377 20
Stoves on hand,. Oil on hand, .								•			76 00
Oil on hand, .											217 44
Sundry accounts de	ue the	con	pan	у, .							6,105 10
Office furniture,			· . ·	•							230 00
Cash on hand, .											26 27
New construction,											973 66
•			_						-	-	
Total assets, as	per	book	s of	the c	omp	any,	•	•	• •	•	<b>\$36,735 30</b>

				Lı	ABIL	ITIE	3.					
Capital stock, .												\$17,300
Unpaid bills, .		•					•					220
			_									
Total liabilities	s, as p	er t	ooks o	f th	e coi	mpar	y,	•	•	•	•	\$17,520
Profit and loss bala	ince,	•	•	•	•	•	•	•	•	•	•	19,214
											•	<b>\$</b> 36,735
			MANUI	PACT	ruri:	NG A	CCOT	NT.				• •
0 4									_	DR	-	Cz.
Operating expenses	١, .	•	•	•	•	•	•	•	Ŧ	7,216	15	
Income from sale of	M gas,	, .	• •	•	•	•	•	•				\$8,818
residi	uais,	•	•	•	•	•	•	•				45
Balance to profit ar	<b>ad</b> 108	8,	•	•	•	•	•	•	_	1,648	30	
										88.86	4 45	\$8,864
		3	PROPIT	AN	D L	086	Acco	UNT.		<b>#</b> 0,00		ψο,ου 2
										Dr	•	Cr.
Balance June 30, 18				•	•	•	•	•				\$17,458
Balance of manufac	cturin	g 84	count,	•	•	•	•	•				1,648
Rents,	•	•	•	•	•	•	•	•				66
Other items of inco	me,	•	. •	•	•	•	•	•				41
B <b>alance June 30,</b> 18	8 <b>9</b> 6,	•	•	•	•	•	•	•	\$1	9,214	78	
										9,214	79	\$19,214
			_						<b>⊕</b> 1	0,217	10	<b>\$13,212</b>
Real estate, .												\$11,218
					Assr	me						
	•		•		•	•			•	•	•	
iteem nient.			:		•	:	:	:	:	:	:	13,839
iteem nient.			:		•	:	•	:	:	•	:	1 <b>3,</b> 839 19,769
iteam plant, . Electric plant, . Electric lines, trans	sforme		and arc	lan	aps,	:	:	:	•	:	:	13,839 19,769 9,466
iteam plant, . Electric plant, . Electric lines, trans feters,	forme	ors a			nps,	•	•	:	:	:	:	13,839 19,769 9,466 <i>6</i> 54
iteam plant, . Electric plant, . Electric lines, trans feters, . Due for light and p	forme • ower.	ors a		•	nps,		:	:	•		:	13,839 19,769 9,466 554 8,395
iteam plant, Electric plant, Electric lines, trans feters, Oue for light and person on hand,	oforme	ors a	•	:	aps,		:					13,839 19,769 9,466 554 3,395 546
iteam plant, Slectric plant, Electric lines, trans feters, Oue for light and person on hand,	oforme	ors a	•	:	aps,	•						13,839 19,769 9,466 554 3,395 546 62
iteam plant, Slectric plant, Electric lines, trans feters, Oue for light and person on hand,	oforme	ors a	•	:	aps,	•	•	:				13,839 19,769 9,466 654 8,395 546 62 42
Steam plant, Slectric plant, Clectric lines, trans feters, One for light and p Tuel on hand, Sarbons on hand, bit and waste on ha Hobes on hand,	ower,	ors a			nps,							13,839 19,769 9,466 654 8,395 546 62 42 16
steam plant, Slectric plant, Slectric lines, trans feters, Oue for light and pour on hand, arbons on hand, bil and waste on hand, the contract of the contract	ower,	ors a		•	nps,							13,839 19,769 9,466 554 3,395 546 62 42 16 224
steam plant, Slectric plant, Slectric lines, trans feters, Oue for light and pour on hand, arbons on hand, bil and waste on hand, the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract	ower,	ors a		•	nps,							13,839 19,769 9,466 654 3,396 546 62 42 16 224 478
steam plant, Slectric plant, Slectric lines, trans feters, Oue for light and pour on hand, arbons on hand, bil and waste on hand, the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract	ower,	ors a		•	nps,							13,839 19,769 9,466 654 3,396 546 62 42 16 224 478
team plant, Slectric plant, Slectric lines, trans feters, Due for light and pour cue for light and pour cue for light and pour cue for light and pour cue for light and pour cue for light and waste on hand, ther materials on leatures on hand, forses, wagons and cundry accounts du	ower, and, hand, d insu	rane		• • • • • • • • • • • • • • • • • • • •	nps,							13,839 19,769 9,466 554 3,395 546 62 42 16 224 478 589
steam plant, Slectric plant, Slectric lines, trans feters, One for light and pour clear on hand, Slarbons on hand, Hobes on hand, ther materials on lestures on hand, forses, wagons and undry accounts duffice furniture,	ower, and, hand, insu	con		• • • • • • • • • • • • • • • • • • • •	nps,							18,839 19,769 9,466 654 8,395 546 62 42 16 224 478 589 182
steam plant, Slectric plant, Slectric lines, trans deters, Oue for light and ported on hand, Aarbons on hand, Dil and waste on ha Hobes on hand, ther materials on lixtures on hand, torses, wagons and undry accounts du ffice furniture, ash on hand,	ower, and, hand, dinsu	ors a		• • • • • • • • • • • • • • • • • • • •	nps,							18,839 19,769 9,466 554 8,395 662 42 16 224 478 589 181 207
steam plant, Slectric plant, Slectric lines, trans deters, Oue for light and perel on hand, larbons on hand, bil and waste on ha Hobes on hand, ther materials on la ixtures on hand, lorses, wagons and undry accounts du ffice furniture, ash on hand, lotes receivable,	ower, and, hand, dinsume the	rane			nps,							18,839 19,769 9,466 554 8,395 542 42 16 224 478 589 182 151 207 1,096
steam plant, Slectric plant, Clectric lines, trans feters, Oue for light and ported on hand, I arbons on hand, I and waste on had, I and waste on had, I and waste on hand, I and waste on hand, I and waste on hand, I and waste on hand, I and waste on hand, I and waste on hand, I arbons on hand, I arb	ower, and, hand, dinsu	rane		• • • • • • • • • • • • • • • • • • • •	nps,							18,839 19,769 9,466 554 8,395 662 42 16 224 478 589 181 207
iteam plant, lectric plant, lectric lines, trans leters, oue for light and plant on hand, larbons on hand, ill and waste on hallobes on hand, ther materials on lixtures on hand, lorses, wagons and undry accounts du ffice furniture, ash on hand, lotes receivable,	ower,  and,  hand,  d insure the	ors a			. nps,							18,839 19,769 9,466 554 8,395 542 42 16 224 478 589 182 151 207 1,096
team plant, Sectric plant, Sectric plant, Sectric lines, trans Seters, One for light and point on hand, Sarbons on hand, Sil and waste on hand, Sil and waste on hand, Sil and waste on hand, Section on hand, Sec	ower,  and,  hand,  d insure the	ors a	openy,		. nps,							13,839 19,769 9,466 554 3,395 546 62 42 478 589 182 151 207 1,096 45,770
iteam plant, Sectric plant, Sectric plant, Sectric lines, trans Seters, One for light and point on hand, Sarbons on hand, Sili and waste on ha Selection on hand, Sel	ower, ower, hand, hand, per be	ors a	openy,		. nps,							13,839 19,769 9,466 654 3,395 62 42 42 478 589 182 151 207 1,096 45,770
iteam plant, Slectric plant, Clectric lines, trans feters, Oue for light and ported on hand, Illand waste on hand, Iteam materials on lixtures on hand, Corses, wagons and Corses, wagons and Corses, wagons and Corses and corses, wagons, Co	ower, ower, hand, dinsule the	ook	ce, appany,		. nps,							13,839 19,769 9,466 554 3,395 546 42 478 589 181 207 1,096 45,770 \$107,610
steam plant, Slectric plant, Slectric plant, Slectric lines, trans deters, Oue for light and perel on hand, larbons on hand, bil and waste on ha Hobes on hand, ther materials on lixtures on hand, forses, wagons and undry accounts du ffice furniture, ash on hand, totes receivable, nvestments, Total assets, as apital stock, fotes payable,	ower, ower, hand, dinsule the	ook	openy,		. nps,							13,839 19,769 9,466 554 3,395 546 62 42 16 224 478 589 182 151 207 1,096 45,770 \$107,610
steam plant, Slectric plant, Slectric lines, trans feters, Oue for light and pr ruel on hand, Sarbons on hand, bil and waste on ha Hobes on hand, ther materials on l Extures on hand, forses, wagons and undry accounts du fflice furniture, ash on hand, fotes receivable, fotes receivable, fotes receivable, fotes receivable, fotes receivable, fotes receivable, fotes receivable, fotes payable, fotes payable, fotes payable, fotes payable,	ower, ower, hand, hand, per b	rane	co, apany,		. nps,							13,839 19,769 9,466 554 3,395 546 62 42 16 224 478 589 182 151 207 1,096 45,770 \$107,610
Steam plant, Slectric plant, Slectric plant, Slectric lines, trans deters, Oue for light and perel on hand, Sarbons on hand, Dil and waste on ha Hobes on hand, ther materials on l'attures on hand, torses, wagons and undry accounts du filee furniture, ash on hand, totes receivable, nvestments,  Total assets, as apital stock, totes payable, totes paya	ower, ower, hand, dinsue the per b	ors a	co, apany,		mps,							13,839 19,769 9,466 554 3,395 546 62 42 16 224 478 589 182 151 207 1,096 45,770 \$107,610
steam plant, Slectric plant, Slectric plant, Slectric lines, trans deters, Oue for light and perel on hand, larbons on hand, bil and waste on ha Hobes on hand, ther materials on la ixtures on hand, forses, wagons and undry accounts du ffice furniture, ash on hand, fotes receivable, nvestments,  Total assets, as  apital stock, fotes payable, finpaid bills, inpaid dividends,	ower, ower, hand, dinsue the per b	ors a	co, apany,		mps,							13,839 19,769 9,466 554 3,395 662 42 16 224 478 589 181 207 1,096 45,770 \$107,610
Steam plant, Slectric plant, Slectric lines, trans deters, One for light and period on hand, Carbons on hand, Slid and waste on had, Sther materials on l'ixtures on hand, Itorses, wagons and undry accounts duffice furniture, ash on hand, lotes receivable, nvestments,	ower, ower, and, hand, dinsure the per b	ors a	ooks of	the	mps,							13,839 19,769 9,466 554 3,395 546 62 42 16 224 478 589 182 151 207 1,096 45,770 \$107,610

	M	ANUP	ACTU:	RING	Acc	DUNT.		
							Da.	Ca.
Operating expenses, .	•	•	•		•	•	\$12,449 2	
Income from sale of light	and	bome	r,		•	•		\$18,815 59
other source					•			228 27
Balance to profit and loss	,	•	•				6,594 6	2
	<b>D</b> -			•	•		\$19,043 8	6 \$19,043 86
	PR	OFIT	AND	L088	ACC	OUNT.	Dr.	Ca.
Balance June 30, 1895,		_						84,628 OI
Balance of manufacturing	r BCCC	onnt.	-					6,594 62
Rents,		,	-					3,450 80
Interest paid,	•	•					\$1,521 1	
Dividends declared, .	•	•	•	•		•	2,515 0	
Depreciation,	•	•	•	•		•	1,239 6	
Mill expenses,	•	•	•	•			4,977 7	
Other items	•	•	•	•	•		3 0	
	•	•	•					-
Balance June 30, 1896,	•	•	•	•	•		4,416 9	N
						_	\$14,673 4	3 \$14,673 43
4 3 5 D C D C T C T C T C T C T C T C T C T C		-						_
AMESBUR	LY A	LND				GAS	COMPANY	(.
Paul astato				RSETS.				A4 097 A0
Real estate,			-			• •		. \$4,875 98
Machinery and manufact	uring	appi	iance	8, .	•			. 40,255 50
Street mains,	•	•	•	•				. 17,592 96
Meters,	•	•	•					. 1,819 21
Due for gas,	•	•	•					. 1,859 57
Coal on hand, Enrichers on hand, . Purifying materials on hand.	•	•	•					. 970 00
Enrichers on hand, .	•	•						. 225 54
Purifying materials on ha	and,							. 18 45
Stoves on hand, .								. 15 20
Fixtures on hand, .								. 537 18
Office furniture, .								. 80 00
Cash on hand,								. 3,755 38
Total assets, as per b		of th	e cor	npany	· <b>,</b>			. \$72,004 97
•				BILITI	B8.			
Capital stock,	•	•			•			. \$60,000 00
Total liabilities as n	aw ha	oka o	f tha	aam n	<b>4</b> 11 17			. \$60,000 00
Total liabilities, as p Profit and loss balance,	er bu				ъпу, •	. :		. 12,004 97
·								\$72,004 97
	M	IANUE	ACT	BING	Acc	OUNT.		• •
Onematic =							DE.	Cz.
Operating expenses, .		•	•	•	•	• •	<b>\$</b> 8,775	
Income from sale of gas,		•	•	•	•	• •	. ===	\$10,572 82
Balance to profit and lose	5,	•	•	•	•	• •	1,797	06
	D	<b></b>		. 1		<b></b>	\$10,572	82 \$10,572 82
•	P	KUFIT	ANI	. TO8	o AC	COUNT	Dr.	Cz.
Balance June 30, 1895,								\$10,195 33
Balance of manufacturin	-	-						1,797 06
Other items of income,								12 58
Balance June 30, 1896,		•	•	:		· ·	\$12,004	
	•	•	•	•	•	•	<u> </u>	
							\$12, <b>004</b> \$	97 \$12,004 97

### AMHERST GAS COMPANY.

#### Assets.

				As	SETS.							
Real estate (gas	٥					_		_	_		8572	27
Machinery and						١		Ī	·	·	7,192	
Street mains (gr						,, .	•	•	•	•	6,106	
Meters (gas),		:	•	•	•	•	•	•	•	•	1,452	
Due for gas,			•	•	•	•	•	•	•	•	653	
Coke on hand,					•	•	•	•	•	•	62	
Enrichers on ha	 	•	•	•	•	•	•	•	•	•	195	
Other gas mater	dala an ba		•	•	•	•	•	•	•	•		
					•	•	•	•	•	•	104	
Real estate (elec				•	•	•	•	. •	•	•	1,152	
Steam plant (ele			•		•	•	•	•	•	•	8,643	
Electric plant,		•	•	•	•	•	•	•	•	•	6,940	
Electric lines,		•		•	•	•	•	•	•	•	11,809	
Meters (electric			•	•	•	•	•	•	•	•	2,331	
Transformers,				•	•	•	•	•	•	•	2,593	
Arc lamps,					•	•	•	•	•	•	1,102	
Due for electric	light and	powe	r,		•	•	•		•	•	1,027	
Fuel on hand (e	lectric),		•							•	30	10
Carbons on han	d, .						•				21	05
Oil and waste or	n hand,							•			44	70
Incandescent las											130	<b>3</b> 0
Globes on hand,										٠.	4 (	00
Other electric m	aterials o	n han	d, .								1,231	53
Sundry account	s due the	comp	any								320	
Office furniture,											228	
Cash on hand,											4,199	
Insurance (une								-		Ī	303	
11101101100 (41101		-					•	•	•	•		_
Total assets	. sa per b	ooks	of the	com	DADV.				_	_	\$58,454	17
	,				r,						<b>4</b> 00,101	
					•							
			3	LIAB	LITIE	8.						
Capital stock,											\$25,000	00
Bonds issued,											18,500	00
Unpaid bills,											1,005	
Interest due but	not paid.											
		•		-	-	-	-	-	-		462	_
Total liabili	ties, as ne	r boo	ks of	the c	ecutor.	nv.	_	_	_		844,968	
Total liabili Profit and loss b	alence				~mpu	<u>-</u> ,,	•	:	:	•	13,485	
I TONE WITH TOOK	/MIMILOU,	•	•	•	•	•	•	•	•	•	10,100	<i>-</i> 0
											\$58,454	— 17
											\$100,202 .	11
		M.	LNUP	CTUI	RING .	Acco	UNT.		_		_	
		_					•	_	DR.	00	Cr.	
Operating expen	1868,   ga	8, 	• •	•	•	•	•	•	2,755			
	l ele	ctric,	•	•	•	•	•		5,573	04		~=
Income from sa					•	•	•				\$4,423	
	le of elect						•				9,284	
oti	her source	s (ele	ectric)	, .		•	•			_	135	10
Balance to profi	t and loss	, {g	as, .	•	•	•	•		1,667			
		` ( e	lectri	Э, .	•	•	•		3,846	16		
								_				
								\$1	3,843	57	\$13,843	57

	Drawe		T	4			
	PROFIT	AND	TÓBB	A000	UNT.	Dr.	Czs.
Balance June 30, 1895,							\$15,852 19
Balance of gas manufactu	ring acco	unt,					1,667 99
Balance of electric manuf	acturing	LCCOIII	nt				3,846 16
Other items of income, Interest paid,							130 00
Interest paid,						<b>892</b> 6 70	
Dividends declared, .						1,500 00	
Depreciation,						5,583 71	
Depreciation, Balance June 30, 1896,						13,485 93	
• •							
						\$21,496 34	<b>\$21,496 34</b>
AN	DOVER	ELE	CTR	IC CC	MPA	NY.	
		۸.	SETS.				
Deal actata							<b>610</b> 414 61
Real estate,		•		•	•		\$12,414 01
Steam plant,		•		•	•		12,550 29
Electric plant,	· ·			•	•		17,514 27
Electric lines, meters, tran	nsiormers	and	arc iai	mps,	•		17,379 99
Due for light and power,	• •	•		•	•		1,659 32
Fuel on hand,	• •	•		•	•		82 83
Fuel on hand, Carbons on hand, . Oil and waste on hand,		•		•	•		50 00
Oil and waste on hand,	• . •	•		•	•		40 00
Incandescent lamps on ha	nd, .	•		•	•		139 75
Other materials on hand, Horses, wagons, etc.,		•		•	•		234 88
Horses, wagons, etc.,		•		•	•		147 95
Office furniture,		•		•	•		135 40
		•		•	٠		93 26
Insurance,		•		•	•		209 32
Total assets, as per bo	ooks of th	e com	nany.				<b>8</b> 62,551 27
				,			<b>V,</b>
		LIAB	ILITII	RA.			
Capital stock							<b>830,000</b> 00
Bonds issued	• •			•	•		22,000 00
Notes navable		•			•		8,500 00
Capital stock, Bonds issued,							841 69
Interest due but not paid.							648 58
				•	•	• • •	
Total liabilities, as pe	r books o	f the	compa	ıny, .			<b>\$</b> 61,990 27
Profit and loss balance,		•		•			561 00
							262,551 27
	MANUE	'AOTU	RING	Accor	NT.		WORNEL TO
					•	Dr.	Cz.
Operating expenses, .		•		•	•	<b>\$9,7</b> 51 86	
Income from sale of light				•	•		<b>\$</b> 12 <b>,3</b> 81 81
Balance to profit and loss,	. •	•		•	•	2,629 95	
	•					\$12,381 81	\$12,381 81
	PROFIT	AND	Loss	Accor	INT.	<b>\$12,001 01</b>	<b>\$12,001</b> 01
						Dr.	Cz.
Balance June 30, 1895,	• •	•		•	•	\$1,232 87	
Balance of manufacturing	account,	•		•	•		<b>\$2,629 95</b>
Rents, Jobbing account, .				•	•		150 00
Jobbing account, . Interest paid,		•		•	•		665 64
Interest paid,		•		•	•	1,651 72	
Balance June 30, 1896,		•		•	•	561 00	
						<b>\$3,445</b> <i>5</i> 9	\$3,445 ED
						Antara an	Antara Ca

### ARLINGTON GAS LIGHT COMPANY.

•	ARL	ING	TON	GA	8 L	IGH'	r ce	OMP.	ANY	•			
•				A	ABE:	rs.							
Real estate, .	_			_		_						\$1,000	00
Machinery and man						•	•	:	:	•	•	35,000	
Street mains, .						•	•	•	•	•	Ċ	34,000	
												3,308	
	•											488	
												7,069	
•													_
Total assets, as	per o	OOKS	or to	e con	npa	ay,	•	•	•	•	•	<b>\$</b> 80,865	13
				LIAI	BILI'	TIBS.							
Capital stock, .												<b>\$</b> 70,000	00
Unpaid dividends,												858	00
Mass Habilista		<b>b</b> .a	-l	6 4 b 4			_					A70 0=0	_
Total liabilities,	as pa	:r 00	OKB O	т пе	COIL	pany	•	•	•	•	•	\$70,858	
Profit and loss balan	ice,	•	•	•	•	•	•	٠	•	•	•	10,007	19
												\$80,865	13
		N	LANUI	PACTI	RIN	o Ac	2 <b>00</b> U	NT.					
O									<b>A</b> 19	DR.	O.F	Cr.	
Operating expenses, Income from sale of		•	•	•	•	•	•	•	♣ ra	,911	90	<b>617</b> 469	70
residus				•	•	•	٠.	•				\$17,463 1,131	
other a				•	•	•	•	•				63	
Balance to profit and	loar	to,	,•	•	•	•	•	•		,786	98	00	w
DRIEDGE to blont and	7 1031	•,	•	•	•	•	•	•		,700			_
									818	,648	20	\$18,648	20
		P	ROPIT	AND	Lo	88 A	CCOL	NT.		_			
Balance June 30, 189	NR.									Dr.		Cr. \$8,038	Δĸ
Balance of manufact			·	•	•	•	•	•				4,736	
					•	•	•	•					83
Dividends declared,	•	•	•	•	•	:	•	•	<b>2</b> 9	.800	00	02	•
Balance June 30, 189	96.	:	:		•	•	•	•	•	,007			
24.44.00 0 4.44.00 00, 100	,	•	•	•	•	•	•	-	_	<u> </u>			
									\$12	2,807	13	<b>\$</b> 12,807	13
			-										
4.0	nn.				717	TOM	D10	001	<b>473</b> 43				
Α.	PHU.	L G	A8 A	מאז	EL	ECT.	RIC	COI	a PA	NY.			
				A	8831	rs.							
Real estate (gas),												<b>\$9,000</b>	00
Machinery and man	ufac	turin	g app	liane	86 (	gas),						26,417	49
Real estate (gas), Machinery and man Street mains (gas), Due for gas,			٠. ٠.		•	• • • • • • • • • • • • • • • • • • • •						18,452	
Due for gas, .		•									•	604	97
												100	00
Enrichers on hand,												350	00
Enrichers on hand, Other gas materials	on h	and,										75	00
Stoves on hand,		•										158	46
Real estate (electric	.).											1,000	00
Steam plant (electri	c),											3,400	89
Stoves on hand, Real estate (electric Steam plant (electric Electric plant, Restrict lines.	•											30,463	04
Electric lines, .												3,030	83
Electric lines, . Meters (electric),		:										154	50
Dra for electric ligh	t and	l nov	rar									796	48

Due for electric light and power, . Puel on hand (electric), . .

x	GAS	AND	) F	CLE	CTE	CIC	L	IGF	łT.		[
Carbons on hand	, .										:
Oil and waste on	band,										
Other electric ma	•										
Sundry accounts											
Cash on hand, .			•								
Total assets,	as per b	ooks of	the c	ompa	ny,						\$95,
			Li	ARIT	ITIES.						
Capital stock, .	•				•						825,
Bonds issued, .											25,
Notes payable, .											28,
Unpaid bills, .	•										10,
Total liabilitie	es, as pe	r books	of th	e con	npany.						888,
Profit and loss bal	-				•						6,
											<b>\$</b> 95,
		MANU	PAC	TURIN	io Ac	COUN	T.		Dr.		
Operating expense	oc (ga	J, .						\$6	,982	29	
Oberseing expense	ele	ctric,						7	,242	32	
Income from sale	of gas,			•							<b>\$</b> 9,
sale	of electr	ic light	and	powe	۲, ۰	•					9,
Balance to profit	and los	s S gas,	•					3	,011	00	
Danance to promi	wild 100	'' elect	ric,	•	•	•	•	2	,234	26	
				_				\$19	,469	87	\$19
		PROFI	T AN	D Lo	88 AC	COUN	T.	:	Dr.		(
Balance June 30, 1											\$4,
Balance of gas ma	ınufactu	ring acco	ount,								3,
Balance of electric	: manufa	cturing	acco	ant,	•	•	•				2
Interest paid, .	•		•	•	•	•	•	<b>\$</b> 2	,913		
Depreciation, .		• •	•	•	•	•	٠	_	516		
Balance June 30, 1	1896,		•	•	•	•	•	-6	,673	62	
		_						\$10	,103	34	\$10
	ATTLE	BOROU		GAS Asse		нт (	CO	4PAN	ΝY.		
Real estate, .				•	•	•	•	•	•	٠	\$13
Machinery and market mains, .			PHAN	œ,	•	•	•	•	•	•	26,
		• •	•	•	•	:	•	•	•	•	14, 2.
							•		•	•	
Meters,		• •	•	•	•	•	-				9
Meters, Due for gas, .						•	•	•	•	•	
Meters, Due for gas, Coal on hand, .						•		•	•	•	2, 2,
Meters, Due for gas, . Coal on hand, . Coke on hand, .	•	 				•		•	•	•	2,
Meters, Due for gas, Coal on hand, Coke on hand, Tar on hand,	•	  				•		•			2,
Meters, Due for gas, Coal on hand, Coke on hand, Tar on hand, Purifying materia	.ls on ha	   nd, .	:	:		•					2,
Meters, Due for gas, Coal on hand, Coke on hand, Tar on hand, Purifying materia Other materials or	.ls on ha	   nd, .				•		•	•		2,
Meters, Due for gas, Coal on hand, Coke on hand, Tar on hand, Purifying materia Other materials on Stoves on hand,	ls on hain hand,		:	:		•		•		•	2,
Meters, Due for gas, Coal on hand, Coke on hand, Tar on hand, Purifying material Other materials or Stoves on hand, Fixtures on hand,	ls on ha			:		•					
Meters, Due for gas, Coal on hand, Coke on hand, Tar on hand, Purifying materia Other materials on Stoves on hand,	ls on ha			:		•				•	2,
Meters, Due for gas, Coal on hand, Coke on hand, Tar on hand, Purifying material other materials or Stoves on hand, Fixtures on hand, Sundry accounts of	ls on hand,			:		•			•		2,
Meters, Due for gas, Coal on hand, Coke on hand, Tar on hand, Purifying material other materials or Stoves on hand, Fixtures on hand, Sundry accounts of	ds on hain hand,	ond, one				•					2

.

150 00

666 70

#### LIABILITIES Capital stock. . . . . \$46,400 00 Total liabilities, as per books of the company. **\$46,400 00** 23.544 02 **269.944 02** MANUPACTURING ACCOUNT. 11-CR. Operating expenses. \$11,334 70 Income from sale of gas, . **\$19.460** 72 residuals. . 2,550 74 other sources. 38 70 Balance to profit and loss. 10.715 46 **\$22.050 16 \$22,050 16** PROPIT AND LOSS ACCOUNT. I)R. Cn. \$17,410 29 Balance June 30, 1895. Balance of manufacturing account. . 10,715 46 Lamp and stove sales. . . . 258 06 Interest paid. . . **\$10 00** Dividends declared, . . 4.640 00 Depreciation, . . 77 08 Other items. . 112 71 Balance June 30, 1896, . 23,544 02 **228.383** 81 **228.383** 81 ATTLEBOROUGH STEAM AND ELECTRIC COMPANY. ASSETS. Real estate. **\$15,700 00** Steam plant. 24,725 00 Eiectric plant, . 5,300 00 Electric lines, . 15,000 00 Meters, . . 836 00 Transformers, . . 1,217 00 Arc lamps. . . . 2.695 00 Water power plant, . . 2,500 00 Due for light and power, . 780 96 Fuel on hand, . . . 33 20 Carbons on hand. 117 00 Oil and waste on hand, . 73 40 Incandescent lamps on hand, . 302 60 Globes on hand. . . . 73 60 Other materials on hand, . . . 1,125 30 650 00 384 73 Sundry accounts due the company. . 444 49

Total assets, as per books of the company, . . . . . \$72,774 98

Office furniture,

Cash on hand. .

GAS	AND	ELECTRIC	LIGHT.	Jan.
O-120	1111			

xii

				ILITIE	8.					
Capital stock,										<b>\$35,000</b> 00
Notes payable,			•		:					21,400 00
Unpaid bills,			•					•	•	1,298 51
Total liabilities, as p	or ho	oke of	the c	mna.	n V					\$57,698 51
Profit and loss balance,	ÆL 00	OWD OI	tuc (	лшре	цу, .	•	•	:	•	15,076 47
1 tons and loss banance,	•	•	•	• •	•	•	•	•	•	
	34				<b>4</b>					872,774 98
	, DQ	ARUP	ACTU	RING	ACCO	UNT.		Dr.		Cr.
Operating expenses, .							\$1	1,516	19	
Income from sale of ligh	nt and	powe	r,							<b>\$5,94</b> 6 88
other sources,			•							367 80
Balance to profit and los	38,	•				•				5,201 51
								1,516	19	\$11,516 19
	P	ROPIT	AND	Loss	Acco	UNT.	Ψ.	.,0.0		<b>4</b> 11,010 10
								Dz.		Czr.
Balance June 30, 1895,			•		•	•	_	3,844		
Balance of manufacturing			•		•	•		5,201	51	
			•		•	•				\$143 50
Reduction of capital sto	ck,	•	•		•	•				30,000 00
Interest paid,		•	•		•	•		624		
Depreciation,		•	•		•	•		5,896		
Balance June 30, 1896,	•	•	•		•	•	1	5,076	47	
							83	0,143	50	230,143 50
	DA.	017			COM	PAN	Y.			
	DA.	6 917		GAS .88BT8		PAN	ıx.			
Real estate,		•				PAN	· Y.		.;	
Meters,		•		.88BT8		PAN	· ·		.;	659 7
Meters,				.88ET8			· · ·		• •	659 73 131 35
Meters,				.88BT8			· · · · · · · · · · · · · · · · · · ·		•	659 73 131 35 14,767 65
Meters,  Due for gas,  Coal on hand,  Tar on hand,				.88ET8					• • • • • • • • • • • • • • • • • • • •	659 73 131 35 14,767 67 537 86
Meters,  Due for gas,  Coal on hand,  Tar on hand,  Enrichers on hand.				.88ET8					•	659 73 131 35 14,767 65 537 85 14,854 91
Meters, Due for gas, Coal on hand, Tar on hand, Enrichers on hand, . Purifying materials on		•		.88ET8						659 73 131 35 14,767 65 537 86 14,854 91 1,375 16
Meters, Due for gas, Coal on hand, Tar on hand, . Enrichers on hand, . Purifying materials on Other materials on bane	hand,	•		.88ET8						659 73 131 32 14,767 65 537 86 14,854 91 1,375 14 15,188 56
Meters, Due for gas, Coal on hand, Tar on hand, Enrichers on hand, . Purifying materials on Other materials on hand Gas on hand,	hand, d, .			.88ET8					•	659 73 131 33 14,767 65 537 86 14,854 91 1,375 14 15,188 56 444 18
Meters, Due for gas, Coal on hand, Tar on hand, Enrichers on hand, . Purifying materials on Other materials on hand Gas on hand, Horses, wagons, etc.,	hand, d, .			.88ET8						659 73 131 33 14,767 65 537 85 14,854 91 1,375 14 15,188 56 444 15 1,273 56
Meters, Due for gas, Coal on hand, Tar on hand, Enrichers on hand, . Purifying materials on Other materials on hand Gas on hand,	hand,			.88ET8						669 77 131 32 14,767 67 537 86 14,854 91 1,375 14 15,188 56 444 11 1,273 56 160,921 55
Meters, Due for gas, Coal on hand, Tar on hand, Enrichers on hand, . Purifying materials on Other materials on hand Gas on hand, Horses, wagons, etc., Sundry accounts due the	hand,			.88ET8						659 77 131 32 14,767 65 537 8 14,854 91 1,375 14 15,188 56 444 11 1,273 56 160,921 56 2,333 16
Meters, Due for gas, Coal on hand, Tar on hand, . Enrichers on hand, . Purifying materials on Other materials on hand Gas on hand, . Horses, wagons, etc., Sundry accounts due th Cash on hand, . Notes receivable, . Investments,	hand, d, .	i i i i pany		.88ET8						659 77 131 35 14,767 67 537 86 14,854 91 1,375 14 15,188 56 444 15 1,273 56 160,921 56 2,333 16 7,400 00
Meters, Due for gas, Coal on hand, Tar on hand, Enrichers on hand, Purifying materials on Other materials on hand Gas on hand, Horses, wagons, etc., Sundry accounts due th Cash on hand, Notes receivable, .	hand, d, .	i i i i pany		.88ET8						\$1,966,465 18 659 75 131 35 14,767 67 537 86 14,854 91 1,375 14 15,188 56 444 15 1,273 55 160,921 55 2,333 16 7,400 00 25,000 00 104,003 86
Meters, Due for gas, Coal on hand, Tar on hand, Enrichers on hand, . Purifying materials on Other materials on hand Gas on hand, Horses, wagons, etc., Sundry accounts due th Cash on hand, Notes receivable, . Investments, Works improvement,	hand, d, ne con		A							659 77 131 35 14,767 67 537 86 14,854 91 1,375 14 15,188 56 444 11 1,273 56 160,921 56 2,333 16 7,400 00 25,000 00 104,003 86
Meters, Due for gas, Coal on hand, Tar on hand, . Enrichers on hand, . Purifying materials on Other materials on hand Gas on hand, . Horses, wagons, etc., Sundry accounts due th Cash on hand, . Notes receivable, . Investments,	hand, d, ne con		A							659 77 131 3 14,767 6 537 8 14,854 9 1,375 1 15,188 5 444 1 1,273 5 160,921 5 2,333 1 7,400 0 25,000 0 104,003 8
Meters, Due for gas, Coal on hand, Tar on hand, Enrichers on hand, . Purifying materials on Other materials on hand Gas on hand, Horses, wagons, etc., Sundry accounts due th Cash on hand, Notes receivable, . Investments, Works improvement,	hand, d, ne con		A							659 77 131 3 14,767 6 537 8 14,854 9 1,375 1 15,188 5 444 1 1,273 5 160,921 5 2,333 1 7,400 0 25,000 0 104,003 8
Meters, Due for gas, Coal on hand, Tar on hand, Enrichers on hand, . Purifying materials on other materials on hand Gas on hand, Horses, wagons, etc., Sundry accounts due th Cash on hand, Notes receivable, . Investments, Works improvement,  Total assets, as per	hand, d, ne con		A	sers						659 77 131 32 14,767 65 537 86 14,854 99 1,375 12 15,188 56 444 12 1,273 56 160,921 56 2,333 12 7,400 00 25,000 00 104,003 88 \$2,305,356 56
Meters, Due for gas, Coal on hand, Tar on hand, Enrichers on hand, . Purifying materials on other materials on hand, Horses, wagons, etc., Sundry accounts due the Cash on hand, Notes receivable, Investments, Works improvement,  Total assets, as per	hand, d,	npany,	A	npany						659 77 131 3 14,767 6 537 8 14,854 9 1,375 1 15,188 5 160,921 5 2,333 1 7,400 0 25,000 0 104,003 8 \$2,305,356 5
Meters, Due for gas, Coal on hand, Tar on hand, Enrichers on hand, . Purifying materials on other materials on hand Gas on hand, Horses, wagons, etc., Sundry accounts due th Cash on hand, Notes receivable, . Investments, Works improvement,  Total assets, as per	hand, d,	npany,	A	npany						659 77 131 3 14,767 6 537 8 14,854 9 1,375 1 15,188 5 160,921 5 2,333 1 7,400 0 25,000 0 104,003 8 \$2,305,356 5
Meters,	hand,	npany	A	BILITI						659 75 131 35 14,767 65 537 86 14,854 91 1,375 14 15,188 54 444 11 1,273 56 160,921 56 2,333 11 7,400 00 25,000 00 104,003 88 2,305,356 56 6,984 86
Meters, Due for gas, Coal on hand, Tar on hand, Enrichers on hand, . Purifying materials on Other materials on hand Gas on hand, Horses, wagons, etc., Sundry accounts due the Cash on hand, Notes receivable, . Investments, Works improvement,  Total assets, as per	hand,	npany	A	npany						659 77 131 35 14,767 67 537 85 14,854 91 1,375 16 15,188 56 444 11 1,273 55 160,921 55 2,333 11 7,400 00 25,000 00
Meters, Due for gas, Coal on hand, Tar on hand, Enrichers on hand, . Purifying materials on Other materials on hand, Horses, wagons, etc., Sundry accounts due the Cash on hand, Notes receivable, . Investments, Works improvement,  Total assets, as per  Capital stock, Unpaid bills, . Amounts due from the Total liabilities, as	hand,	any, n	A	npany	Es.					659 75 131 35 14,767 65 537 86 14,854 91 1,375 14 15,188 56 444 15 1,273 56 160,921 56 2,333 16 7,400 00 25,000 00 104,003 86 82,305,356 56 6,984 86 82,111,547 45

		MANU	PAC	TURI	ng A	.C <b>C</b> OT	NT.					
									Dr.		Cr.	
Operating expenses, .	•	•	٠	•	•	•	•	<b>\$36</b> 3	8,415	39		
Income from sale of ge	LS, .	•	•	•	•	•	•				<b>\$</b> 610,490	
residuals	, .	•	•	•	•	•	•				955	43
Balance to profit and le	068,	•	•	•	•	•	•	24	8,030	36		
								261	1.445	75	\$611,445	75
		PROFIT		. T	4			Ψ0.	-,0		<b>\$</b> 011,110	•••
		F ROFIT	AI	ם עא	088 2	LCCOL	INT.		Dr.		Cr.	
Balance June 30, 1895,											\$145,962	24
Balance of manufactur	ing a	ccount,									248,030	36
Interest paid, Dividends declared, .									\$183	44		
Dividends declared, .						•		200	0,000	00	•	
Balance June 30, 1896,					•			193	3,809	16		
								\$39	3,992	60	\$393,992	60
BEVE	RLY	GA8	Al	ND E	BLEC	TRI	C C	OM PA	ANY	•		
				A881	T8.							
Real estate (gas), .				•	•	•				•	<b>\$23,</b> 362	
Machinery and manufa				ices (	gas),			•	•		8,334	
Street mains (gas), .		•	•	•	•		•		•		19,547	40
Meters (gas),		•			•	•			•		4,801	
Due for gas,		•						•			3,931	96
Gas coal on hand, .	•	•	•	•		•	•	•			3,326	40
Coke on hand,		•		•				•		•	120	00
Tar on hand, Enrichers on hand, . Gas fixtures on hand,				•	•		•	•		•	240	00
Enrichers on hand, .		•		•	•	•					26	
Gas fixtures on hand,	•	•		•	•	•	•	•	•	•	465	
Gas fixtures on hand, Real estate (electric), Steam plant (electric), Electric plant, Electric lines.	•	•		•	•	•	• `	•	•	•	14,914	
Steam plant (electric),	•	•	•	•	•	•	•	•	•	•	17,098	
Electric plant,	•	•	•	•	•	•	•	•	•	•	18,160	
2100mic mice;	•	•	•	•	•	•	•	•	•	•	18,561	
Meters (electric), . Transformers,	•	•	•	•	•	•	•	•	•	•	684	
Transformers,	•	•	•	•	•	•	•	•	•	•	1,485	
Arc lamps and globes,		•	•	•	•		•		•	•	550	
Due for electric light a	nd po	wer,	•	•	•	•		•	•	•	1,666	
Due for electric light at Carbons on hand, Incandescent lamps on Sundry accounts due the	•	•	•	•	•	•	•	•	•		· 52	
Incandescent lamps on	hand	l, .	•	•	•	•	•	•	•	•	14	
Sundry accounts due ti	e cor	npany,	•	•	•	•	•	•	•	•	587	16
Omce furniture, .	•	•	•	•	•	•	•	•	•	•	666	
Cash on hand,	•	•	•	•	•	•	•	•	٠	•	9,564	
Investments,	•	•	•	•	•	•	•	•	•	•	500	00
Total assets, as per	bool	ts of th	e 0	om pa	ny,		•	•		•	\$148,661	45
			Lı	ABIL	TIES.							
Capital stock,											<b>\$92,000</b>	00
Bonds issued,		~.									11,800	
Unpaid bills,											2,200	
•			-	•	•	-	•	-	-	•		_
Total liabilities, as	per b	ooks o	f th	e con	pany	7, .					\$106,000	00
Profit and loss balance,		•			٠. ١						42,661	35
											0149 661	25
											\$148,661	a0

			MANI	TPACTI	RING	A cco	UNT.			
						.2000	01111	DR		Cr.
Operating expe	naag.	∫ gas	, .	•				\$11,107	42	
operant orbe	,	elec	tric,					7,974	99	
Income from sa	le of	gas, .					•			<b>\$</b> 16,792 86
re	eidua	ls, .								1,760 95
			(gas),							33 28
			ic light		ower,		٠.			12,462 09
of	ther so	ources	(electi	ric),						196 59
Dalamas to mad	6 a a a d	loss	∫ gas,					7,479	67	
Balance to prof	it siid	1088,		tric,				4,683	69	
				•					_	
			Dage		. T			<b>\$</b> 31,245	77	<b>\$</b> 31.245 77
			PROP	IT ANI	Loss	ACC	OUNT.	Ds.		CR.
Balance June 3	0, 189	5								<b>\$34,982 99</b>
Balance of gas	•	•								7,479 67
Balance of elec							-			4,683 69
Interest receive							-			132 82
_				·						99 00
Lamp and stove		• •	•	•	•	•	•			26 99
Other items of				•	•	• •	•			5 58
Sale of land,		· .	•	•	•	• •	•			5,250 00
Interest paid.			•	•	•	• •	•	<b>\$</b> 708	ĸΛ	0,200 00
		•	•	•	•	• •	•	9,200		
Dividends decla	area,		•	•	•		•	•	89	
Depreciation, Balance June 3			•	•	•		•			
Balance June 3	0, 189	υ, .	•	•	•		•	42,661	<b>30</b>	
								\$52,660	74	<b>\$</b> 52,660 74
	RI.AC	TRST	ONE	DI DO	TRIC	LIG	HT C	OMPANY	•	
	BLAG	CKST	ONE				нт с	OMPANY	•	
Real estate	BLAG	CKST	ONE		L88BT6		нт С	OMPANY	•	<b>e</b> 9 0 <b>17</b> 78
Real estate,	· BLAG		ONE				HT C	OMPANY 		\$2,937 28
Steam plant,	:		ONE		L88BT6		HT C	OMPANY  	·. ·	2,725 21
Steam plant, Electric plant,	:		ONE		L88BT6		HT C	OMPANY	•	2,725 21 2,879 58
Steam plant, Electric plant, Electric lines,	:				L88BT6		HT C	OMPANY	•	2,725 21 2,879 58 9,055 63
Steam plant, Electric plant, Electric lines, Meters,			ONE		ASSETS			OMPANY		2,725 21 2,879 58 9,055 63 27 00
Steam plant, Electric plant, Electric lines, Meters, Transformers,	:				ASSETS			OMPANY		2,725 21 2,879 58 9,055 63 27 00 573 00
Steam plant, Electric plant, Electric lines, Meters, . Transformers, Arc lamps,					ASSETS			OMPANY		2,725 21 2,879 58 9,055 63 27 00 573 00 978 15
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand,					ASSETS			OMPANY		2,725 21 2,879 58 9,035 63 27 00 573 00 978 15 135 50
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand, Carbons on har					ASSETS			OMPANY		2,725 21 2,879 58 9,055 63 27 00 573 00 978 15 135 50 27 50
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand, Carbons on har Oil and waste of					ASSETS			OMPANY		2,725 21 2,879 58 9,055 63 27 00 573 00 978 15 135 50 27 50 5 90
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand, Carbons on har Oil and waste of Incandescent ls	on han				ASSETS			OMPANY		2,725 21 2,879 58 9,035 63 27 00 573 00 978 15 135 50 27 50 5 90 65 00
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand, Carbons on han Oil and waste of Incandescent is Other materials	ond,							OMPANY		2,725 21 2,879 58 9,055 63 27 00 573 00 978 15 135 50 27 50 5 90
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand, Carbons on han Oil and waste of Incandescent is Other materials Fixtures on ha	ond, mps on band, nd,	on har			ASSETS			OMPANY		2,725 21 2,879 58 9,035 63 27 00 573 00 978 15 135 50 27 50 5 90 65 00
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand, Carbons on han Oil and waste of Incandescent is Other materials Fixtures on ha	ond, mps on band, nd,	on har			ASSETS			OMPANY		2,725 21 2,879 58 9,055 63 27 00 573 00 978 15 135 50 27 50 5 90 65 00 182 37
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand, Carbons on han Oil and waste of Incandescent is Other materials Fixtures on ha	ond, mps on band, nd,	on har			ASSETS			OMPANY		2,725 21 2,879 58 9,055 63 27 00 573 00 978 15 135 50 27 50 5 80 65 00 182 37 91 45
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand, Carbons on han Oil and waste of Incandescent is Other materials Fixtures on has Sundry account Insurance,	on han timps of on ban dings of to on band, ts due	on har	ompan		ASSETS			OMPANY		2,725 21 2,879 58 9,035 63 27 00 573 00 978 15 135 50 27 50 65 00 182 37 91 48 836 11 87 56
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand, Carbons on han Oil and waste of Incandescent is Other materials Fixtures on ha	on han timps of on ban dings of to on band, ts due	on har	ompan		ASSETS			OMPANY		2,725 21 2,879 58 9,035 63 27 00 573 00 978 15 135 50 27 50 65 00 182 37 91 45 836 11
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand, Carbons on har Oil and waste of Incandescent is Other materials Fixtures on har Sundry account Insurance, Total asset		on har	ompan		ASSETS			OMPANY		2,725 21 2,879 58 9,055 63 27 00 573 00 978 15 135 50 27 50 65 00 182 37 91 45 836 11 57 56
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand, Carbons on har Oil and waste of Incandescent is Other materials Fixtures on has Sundry account Insurance, Total asset  Capital stock,		on har	ompan		ASSETS			OMPANY		2,725 21 2,879 58 9,035 63 27 00 573 00 978 15 135 50 27 50 65 00 182 37 91 45 836 11 57 55 \$20,577 13
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand, Carbons on har Oil and waste of Incandescent is Other materials Fixtures on har Sundry account Insurance, Total asset  Capital stock, Notes payable,		on har	ompan		ASSETS			OMPANY		2,725 21 2,879 58 9,035 63 27 00 573 00 978 15 135 50 27 50 65 00 182 37 91 45 836 11 57 56 \$20,577 13
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand, Carbons on har Oil and waste of Incandescent is Other materials Fixtures on has Sundry account Insurance, Total asset  Capital stock, Notes payable, Unpaid bills,	on han tage on ban	on har	ompan		ASSETS			OMPANY		2,725 21 2,879 58 9,035 63 27 00 573 00 978 15 135 50 27 50 65 00 182 37 91 45 836 11 57 55 \$20,577 13
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand, Carbons on har Oil and waste of Incandescent is Other materials Fixtures on har Sundry account Insurance, Total asset  Capital stock, Notes payable,	on han tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban tage on ban	on har	ompan		ASSETS			OMPANY		2,725 21 2,879 58 9,035 63 27 00 573 00 978 15 135 50 27 50 65 00 182 37 91 45 836 11 57 56 \$20,577 13
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand, Carbons on har Oil and waste of Incandescent is Other materials Fixtures on har Sundry account Insurance, Total asset  Capital stock, Notes payable, Unpaid bills, Unpaid dividen		the co	ompan	A	ASSETS			OMPANY		2,725 21 2,879 58 9,055 63 27 00 573 00 978 15 135 50 27 50 65 00 182 37 91 45 836 11 57 56 \$20,577 13 \$10,000 00 9,106 58 1,056 38 300 00
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand, Carbons on har Oil and waste of Incandescent is Other materials Fixtures on har Sundry account Insurance, Total asset  Capital stock, Notes payable, Unpaid bills, Unpaid dividen Total liabil	odd, nn han nn han nd, ts due  ds, as, as p		ompan	A	ASSETS			OMPANY		2,725 21 2,879 58 9,055 63 27 00 573 00 978 15 135 50 27 50 65 00 182 37 91 45 836 11 \$7 56 \$20,577 13 \$10,000 00 9,106 58 1,056 38 300 00 \$20,462 96
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Fuel on hand, Carbons on har Oil and waste of Incandescent is Other materials Fixtures on har Sundry account Insurance, Total asset  Capital stock, Notes payable, Unpaid bills, Unpaid dividen	odd, nn han nn han nd, ts due  ds, as, as p		ompan	A	ASSETS			OMPANY		2,725 21 2,879 58 9,055 63 27 00 573 00 978 15 135 50 27 50 65 00 182 37 91 45 836 11 57 56 \$20,577 13 \$10,000 00 9,106 58 1,056 38 300 00

#### MANUPACTURING ACCOUNT.

	LANUF	AUI.							
	(Fr	om .	Jan.	1, 1	896.)		_		_
							DR		Cr.
Operating expenses,	•	•	•	•	•	•	\$2,147	88	
Income from sale of light and	•	•	•	•	•	•			<b>\$2,676 4</b> 2
Balance to profit and loss,	•		•	•	•	•	528	54	
							00.070		00 070 40
							\$2,676	12	<b>\$</b> 2,676 <b>4</b> 2
P.	ROPIT	ANI	Lo	88	A ccou	NT.	Dr.		Cr.
Balance of manufacturing acc	onn!						DR.		\$528 54
	ount,	•	•	•	•	•			•
Wiring account,	•	•	•	•	•	•			60 44
Interest paid,	•	•	•	•	•	•	\$174		
Dividends declared,	•	•	•		•	•	_	00	
Dividends declared, Balance June 30, 1896,		•			•		114	17	
							\$588	98	\$588 98
BLOCK PLAN	T E	LEC	TR	IC	LIGH	T CC	MPAN	Y.	
		A	.88 R	TB.					
Steam plant,									\$9,561 45
Electric plant,									5,347 95
Electric lines, meters, transfo									4,236 66
								Ĭ.	738 64
Due for light and power, . Incandescent lamps on hand,	•	٠.	•	•	•	•	• •	•	144 26
				•	•	•		•	
Other materials and tools on				•	•	•		•	46 29
Sundry accounts due the com		•	•	•	•	•		•	73 21
Office furniture,	•	•	•	•	•	•		•	60 <b>0</b> 0
Cash on hand,	•			•	•	•			117 48
(Patal annual an man banka									\$20,325 94
Total assets, as per books			-		•	•		•	• •
Profit and loss balance, .	•	•	•	•	•	•		•	2,197 48
									\$22,523 42
		LIA	BILI	TIE	3.				#22,020 T2
Capital stock,									<b>\$</b> 9,500 00
•	•	•	•	•	•	•		•	
Notes payable,		•	•	٠	•	•		•	11,376 76
Unpaid bills,	•	•	•	٠	•	•		•	1,646 66
Total liabilities, as per bo	oks o	f the	cor	npa	ny,	•		•	\$22,523 42
N	Lanui	AOT	URII	NO A	<b>L</b> ccou	NT.			
_									
	(Fı	rom	Jan.	. 1, 1	1 <b>89</b> 6.)		D=		Co.
	(Fı	rom	Jan.	. 1, 1	1896.)		Dr eg ar		CR. ·
Operating expenses,				•	1896.)	•	Dn \$6,480		
Operating expenses, Income from sale of light and	powe		Jan	. 1, 1					\$4,877 09
Operating expenses, Income from sale of light and other sources,	powe	er,							\$4,877 09 600 00
Operating expenses, Income from sale of light and other sources,	powe			•					\$4,877 09
Operating expenses, Income from sale of light and other sources, Balance to profit and loss,	powe	er,	:		•			36	\$4,877 09 600 00
Operating expenses, Income from sale of light and other sources, Balance to profit and loss,	powe	er,	:		•		\$6,480 \$6,480	36	\$4,877 09 600 00 1,003 27 \$6,480 36
Operating expenses, Income from sale of light and other sources, Balance to profit and loss,	POWe ROPIT	· · · ·		088	Accou		\$6,480 \$6,480	36	\$4,877 09 600 00 1,003 27
Operating expenses, Income from sale of light and other sources, Balance to profit and loss, P. Balance of manufacturing acc	POWe ROPIT	· · · ·	:		•		\$6,480 \$6,480 Dm \$1,000	36 36 37	\$4,877 09 600 00 1,003 27 \$6,480 36
Operating expenses, Income from sale of light and other sources, Balance to profit and loss,  P Balance of manufacturing accurates the paid,	POWe ROPIT	· · · ·		088	Accou		\$6,480 \$6,480 \$1,000 95	36 36 37 207	\$4,877 09 600 00 1,003 27 \$6,480 36
Operating expenses, Income from sale of light and other sources, Balance to profit and loss,  P. Balance of manufacturing account, Shop and jobbing account,	powe	· · · ·		088	Accou		\$6,480 \$6,480 \$1,000 95	0 36 0 36 3 27 2 07 3 99	\$4,877 09 600 00 1,003 27 \$6,480 36
Operating expenses, Income from sale of light and other sources, Balance to profit and loss,  P. Balance of manufacturing account, Shop and jobbing account,	powe	· · · ·		088	Accou		\$6,480 \$6,480 \$1,000 95	36 36 37 207	\$4,877 09 600 00 1,003 27 \$6,480 36
Operating expenses, Income from sale of light and other sources, Balance to profit and loss,  P. Balance of manufacturing act Interest paid, Shop and jobbing account, Other items,	powe	ANI		088	Accou		\$6,480 \$6,480 \$1,000 95	0 36 0 36 3 27 2 07 3 99	\$4,877 09 600 00 1,003 27 \$6,480 36
Operating expenses, Income from sale of light and other sources, Balance to profit and loss,	powe	ANI		088	Accou		\$6,480 \$6,480 \$1,000 95	36 36 3 27 2 07 3 99 5 15	\$4,877 09 600 00 1,003 27 \$6,480 36 Cs.

#### BLUE HILL ELECTRIC COMPANY.

A	88	B'	rs.

				4	788B	TB.						
Real estate, .												<b>\$3,794 03</b>
Steam plant, .												8,664 94
Electric plant.												15,678 95
Electric lines, .												33,193 42
Meters												208 10
Fuel on hand, .												16 22
Carbons on hand,												43 66
Oil and wests on h	hea											89 76
Incandescent lamps	s on h	and.										38 50
Incandescent lamps Globes on hand, Other electric mate		. '										8 00
Other electric mate	rials (	on ha	ınd,									234 74
Horses, wagons, et	c.,		•									327 50
Sundry accounts d												1,721 🕏
Cash on hand, .			• •									39 13
•												
Total assets, as	per l	book	s of th	18 CC	mpa	ny,						<b>\$64,058</b> 18
						• •						• •
				_								
				LI.	ARIL	ITIE8	•					
Capital stock, .												\$30,000 00
Bonds issued.												20,000 00
Notes payable, .												9,475 38
Unpaid bills,												896 53
Total liabilitie	8. 88 T	er b	ooks	of th	e co	mpan	v.					<b>260,37</b> 1 91
Profit and loss bald												3,686 27
	•											<u> </u>
												<b>264,058</b> 18
												<b>4</b>
		1	UMANU	PAC'	TURI	NG A	CCOT	NT.				
<b>.</b>									_	Dr.		Cz.
Operating expense		. <b>:</b> .				•		•	₽	<b>6,90</b> 5	07	
Income from sale								•				\$11,355 88
Balance to profit a	nd los	18,	•	•	•	•	•	•		4,450	8f	
										1,356	22	\$11,355 88
									Ψ.	. 1 ,000	•	<b>411,000</b> 00
			ROPI		en T	·	A 000					
			RUPL	, Al	ם עי	V68 /	2000	UNT.		Dr.		Cz
Balance June 30, 1	895.											\$1,897 85
Balance of manufa		ng sư	coun	t			·					4,450 81
Interest paid,				.,					9	1,762	39	-,
Dividends declared									•		00	
Balance June 30, 1			:					•		3,686		
	,	•	•	•	•	•	•	•	_			
									•	6,348	66	26,348 66
									•	-,020		4010.0

# BOSTON ELECTRIC LIGHT COMPANY.

•	BOSTO	N ELE	CTR	IC LI	GHT	COM	PANY.			
			A	BBBTS	,					
Real estate, .		_	_						\$663,982	55
Steam plant, .		-				•			476,780	
Electric plant,									450,184	
									1,043,950	
Meters.									28,636	02
Transformers,									71,339	75
Transformers, Arc lamps, Due for light and po									180,587	28
Due for light and po	ower, .								46,624	50
Fuel on hand, .									3,636	
Carbons on hand,									3,075	55
Oil and waste on ha	nd, .								223	
Incandescent lamps	on har	ıd, .							1,794	47
Globes on hand,									1,145	25
Other materials on									40,824	22
Motors on hand,									1,932	04
Motors on hand, Horses, wagons, etc									3,000	00
Sundry accounts du	e the c	ompany,							56,587	
Office furniture,		• • • •							3,500	
									21,265	
•										
Total assets, as	per bo	oks of th	e con	ipany	, .	•			<b>\$</b> 3,099,070	03
			TILLE	ILITI	<b>D</b> O					
On 14-1 -4-1									<b>-1</b> 700 000	•
Capital stock, .		•	•	• •	•	•	•	•	\$1,700,000	00
Bonds issued,		•	•		•	•	•		789,500	
Notes payable, .		•			•	•	•	•	245,919	37
Bonds issued, . Notes payable, . Unpaid bills, . Interest due but not		•	•	• •	•	•	•	•	67,700 14,744	37
interest due out not	paid,	•	•		•	•	•	•	14,744	17
Total liabilities, Profit and loss balan	, as per	books o	f the	com p	my,				\$2,817,863 281,206	91
Profit and loss bala	nce, .								281,206	12
									<b>\$</b> 3,099,070	03
		MANUE	ACTU	RING	VCC0.	UNT.	D		Cz.	
Operating expenses,			_				8420,6			
Income from sale of					•	•	Ψ,0	00	\$651,220	31
Balance to profit an	d loss.	po	-,			•	230.5	79 01	<b>\$</b> 001,220	-
Distance to promo ma	,	•	•		•	•				
							\$651,2	20 31	<b>\$651,220</b>	31
		PROPIT	AND	Loss	Acco	UNT.				
m . T 60 10	~						Di	R.	Cr.	00
Balance June 30, 18					•	•			\$372,611	
Balance of manufac	turing	account,	•		•	•			230,579	
Rents, Jobbing account,	• •	•	•	• •	•	•			3,272	
Jobbing account,	• •	•	•		•	•			6,480	
Revaluation of real			•		•	•	<b>A</b> F0 0	10	104,914	91
Interest paid,			•		•	•	\$50,3			
Dividends declared,			•		•	. •	136,0			
Depreciation, Other items, Balance June 30, 18		•	•		•	•	250,0			
Other items,		•	•		•	•		32 42		
Balance June 30, 18	<b>У</b> О, .	•	•		•	•	281,2	UG 12		
•							\$717,8	57 71	\$717,857	71

#### BOSTON GAS LIGHT COMPANY.

	DUO.	ION G	AO .	LIGH	1 0	OMP	MI.		
				ASBTS	١.				
Real estate.			_						\$1,399,008 20
Machinery and manu	Sa admini		•	• •	•		•	•	
							•		3,300,151 85
Street mains and serv			•		•		•	•	2,016,658 12
Meters,	• •	•	•		•		•		395,118 05
Due for gas,		•	•		•		•	•	132,734 48
Coal on nand,		•	•		•	• •	•		13,734 99
			•				•	•	. 17 10
Tar on hand,		•	•				•		5,237 38
Enrichers on hand,							•	•	. 17,157 10
Purifying materials	n han	1, .	•				•	•	. 526 81
Other materials on he	and, .	•	•				•		. 29,217 24
Stoves on hand,		•							. 171,276 48
Ammonia, .							•		408 62
Gas on hand, Horses, wagons, etc.,									2,161 44
Horses, wagons, etc.,									4,141 70
Sundry accounts due	the co	mpany,							57,131 45
Office furniture, .									11,830 86
Cash on hand, . , .									39,638 46
Works in progress,									31,053 05
Total assets, as p	er boo	ks of th	e con	apany	, .	•	•	•	<b>8</b> 7,627,203 38
1			_						
			LIAB	ILITI	38.				
Capital stock,									\$2,500,000 00
Notes payable, .									245,000 00
									190,480 67
Deposits,									8,882 50
							-		287,410 12
Amounts due from th									10,000 00
Total liabilities,	as per	books o	f the	comp	any,			•	<b>\$</b> 3,241,773 29
Profit and loss balance	œ, .								4,385,430 09
									<b>\$7,627,203 3</b> 9
•		MANUI	ACTU	RING	Acc	OUNT.			
0								R.	Cz.
Operating expenses,			•		•		<b>\$846</b> ,3		
Income from sale of			•		•				\$1,087,193 64
residual	8, .	•	•						9,306 02
Balance to profit and	loss,	•	•				250,1	21 65	
							\$1.096.5	01 66	<b>8</b> 1,096,501 66
							Ų-,,o		· ,, »
		Propit	AND	Loss	Aoc	TRUOS		_	~
Delemen T 00 1000							D	R.	Ca.
Balance June 30, 1895			•		•	•			<b>\$4,351,107</b> 51
Balance of manufacto			•		•	•			250,121 65
Rents,	•		•		•	•			16,956 50
Other items of incom		•	•			•			2,014 36
Interest paid, .		•	•		•			69 93	
Dividends declared, Balance June 30, 189		•	•		•		•	00 00	
Balance June 30, 189	5, .	•	•			•	4,385,4	20 09	ı
							24,620.2	00 09	84,620,200 02
							A -1-20-15		4-10-01-00

#### BRIDGEWATER ELECTRIC COMPANY.

	BRID	GEV	A V.I	ER	ELI	SCTR	iic	COM	PAN	¥.			
					Asse	TS.							
Real estate, .			_			_						<b>8</b> 3,233	62
Steam plant,		•		·				•	•	•		5,629	
							·			·		5,289	
Electric plant, Electric lines, Moters, Arc lamps and g Due for light and Fuel on hand, Carbons on hand Oil and waste on		•		•		•	• •		·	•	·	13,220	
Meters.											-	971	
Arc lamns and o	lobas	•	•	•	·	Ċ	·	·	·	•	•	2,692	
Due for light and	l nower.	-			·			-				793	
Fuel on hand.	. po,	•	•	·	-	•	Ċ	•	·	Ŀ	•	70	
Carbons on hand		:	•			•	-	·	•			56	
Oil and waste on	hand.	•				•	-	-	-			50	
Incandescent lan	nns on h	and.									-	10	
Globes on hand,	-p	,		·				·		-			13
Cash on hand,		-								-		_	
							•	•	•	•			_
Total assets,	as per t	ooke	of t	the co	omp <b>a</b>	ny,	•				•	<b>\$32,</b> 121	54
Profit and loss b	alance,	•			•	•					•	779	52
												832,901	
				Lı	ABIL	ITIE8						<b>4</b> 02,601	w
Capital stock,												\$15,000	ΔΛ.
Bonds issued,	•	. `	•	•	•	•	•	•	•	•	•	15,000	
Notes payable, .		•	•	•	•	:	•	•	•	•	:	-	ne.
									•	•	•	2,501	<u></u>
Total liabilit	ies, as p	er bo	oks	of th	e cor	npany	у,					\$32,901	06
		-	•			4							
		D.	LANU	PAC	TURI	NG A	CCO	UNT.		DR.		Cn.	
Operating expens	ses								84	,908	96	-	
Income from sale	of ligh	and	pow	ver.					•	•		<b>\$6,34</b> 2	51
Balance to profit	and loss	١.	•	·					1	,433	55	• •	
		•								<u>_</u> _	_		
		_			_				<b>\$</b> 6	,342	51	<b>\$</b> 6,342	51
		P	ROPI	T AN	n L	088 A	cco	UNT.		DR.		CR.	
Balance June 30,	1895								21	,403		CA.	
Balance of manu						•	•	•	Ψ.	, 100	~	\$1,433	55
Wiring and jobb	ing acco	g acc	Jun	•, •	•	•	•	•					51
Interest neid		u,	•	•	•	·	•	•		900	00		01
Interest paid, Balance June 30,	1896	•	•	•	•	•	•	•		000	•	779	52
Dalanco Vallo 00,	-	•	•	•	•	•	•	•	_				
									82	,303	58	\$2,303	58
			-				-						
	BRO	CK'	ron	GA	8 L	IGH T	C	OMPA	NY.				
					Asse	ITS.							
Real estate, .	•	• .	•	. •	•		•	•	•	•	٠	<b>849,000</b>	
Machinery and n				plian	ces, a	treet	mai	ns,	•	•	•	219,319	
Meters,		•		•	•	•	•	•	•	•	•	6,291	
Due for gas, .		•		•	•	•	•	•	•	•	•	3,192	
Coal on hand, .		•	•	•	•	•	•	•	•	•	•	1,732	
Coke on hand, .				•	•	•	•	•	•	•	•	144	
Tar on hand, .	•	•	•		•		•	•		•	•	150	
Enrichers on han	ıd, .	•	•		•	•	•	•	•	•	•	374	
Purifying materi	als on h	and,	•	•	•	•	•	•	•	•	•	100	00

						•			
жx	GAS	AND	EL	ECI	RIC	LI	GH	T.	[Jan.
Other materials	on hand.					_		_	. \$2,293 03
Stoves on hand,									. 696 53
Gas on hand,					•				. 39 03
~ · · · ·									. 2,257 68
Horses, wagons	, etc.,								. 624 90
Sundry account		company	,						. 968 71
Office furniture,									. 170 15
Cash on hand,									. 191 97
Matal access									2007 E4E 46
Total assets Profit and loss b				-		•	•	•	. \$287,545 46 . 36,920 29
I TONG AND TOSE I	Jaian Co,	• •	•	• •	•	•	•	•	. 00,020 25
			LIAB	ILITI	38.				<b>\$</b> 324,465 75
Capital stock,									. \$178,500 00
Bonds issued,									100,000 00
Notes payable,									. 28,081 90
Unpaid bills,									. 15,317 85
Deposits, .									. 66 00
Interest due but	not paid,				•				. 2,500 00
Total liabili	ties, as pe	r books o	of the	compa	ıny,				. \$324,465 75
				•	•				
		MANU	PACTU	RING	Accou:	NT.		_	_
Operating away								Dr. 656 3	Cz.
Operating exper Income from sai			•	• •	•	•	фоо,	000 0	\$37,482 86
			•		•	•			4,886 58
	her source		•		•	•			319 29
Balance to profi		•	:		•	•	Q	032 4	
Databet to pron	• unu 1000	, .	•	•	•	•			
		_		_			<b>\$42</b> ,	688 7	3 \$42,688 73
		Profit	, YND	Loss	Accou	NT.		Dr.	Car
Balance June 30	. 1895.					_		095 2	
Balance of man							Ψυ.,		<b>\$9,03</b> 2 <b>43</b>
Sales of burner	-	,							295 22
Other items of i									821 99
Interest paid,							7,	296 6	9
Depreciation,								678 0	
Balance June 30	), 1896,						-		36,920 29
							847	,069 9	8 847,069 93
		-							
	BRO	OKLINE	GAS	s LIG	HT C	OMP.	ANY.		
			A	RSRTS.					
Real estate (ga	8), .							_	. \$657,561 85
Machinery and				es (creu		•		•	. 684,233 43
Street mains (g								:	. 1,998,583 11
Meters (gas),									160,283 64
Due for gas,									125,895 99
Gas coal on har	nd,							•	4,164 00
Coke on hand,									. 149 20
Enrichers on ha									. 13,704 10
Purifying mate	-	and, .							. 110 00
Stoves on hand									. 166,973 35
Gas fixtures on									. 1,329 27
	•								•

1897.] F	PUBL	IC	DO	CU!	ME	NT -	<b>-</b> 1	No.	35.		. xxi
Real estate (electric											\$47,300 00
Steam plant (electr	ic), .										117,748 87
Electric plant, .											98,530 18
Electric lines, .											142,954 71
Meters (electric),											6,674 59
Arc lamps, .											16,932 77
Due for electric ligi	ht and r	ower									7,590 64
Fuel on hand (elec-	tric).										5,749 15
Other materials on	hand.										84,327 05
Insurance (unexpir											2,267 54
Horses, wagons, et											2,510 00
Sundry accounts de	ue the c	omna	nv								10,035 49
Office furniture,						-			-		5,057 00
Cash on hand, .				•			Ċ			•	49,015 13
Notes receivable,		•				•	•	•	•	•	244 50
Investments, .			·			:	٠	•	•	•	7,557 43
111 4 C9 FILICI169, .		•	•	•	•	•	•	•			
Total assets, as	per bo	oks o	f the c	ompa	any,						\$4,417,982 99
Profit and loss bals	ince, .			·	•						303,595 75
	•										\$4,721,578 74
			T.7	A BIT.	ITIBS	_					
				ADIL	11120	•					
Capital stock, .		•		•	•	•	•		•		<b>\$2,000,</b> 000 00
Bonds issued, .		•		•		•	•		•		1,000,000 00
Notes payable, .		7	•			•					111,500 00
Unpaid bills, .					•						26,116 57
Deposits,											2,067 17
Deposits, Interest due but no	e paia,		•	•							2,067 17 55,641 67
Reserved fund,											95 000 00
Reserved fund, Amounts due from	the cor	npan	y, not	inclu	ded a	bove,					1,501,253 33
Total liabilities	s, as per	r bool	ks of th	he co	m <b>pan</b>	у,	•		.`		\$4,721,578 74
		35.					_				
			NUPAC						DR.		CR.
Operating expenses	. ∫ gas	٠.						\$47	4,207	40	
Operating expenses	' l ele	ctric,						. 6	9,055	41	
Income from sale of	f gas, .								-		\$672,444 63
	of electr										83,549 01
			ıs, .					19	8,237	23	,
Balance to profit as	IG TORB,	₹ el	ectric,					1	4,493	60	
			,								\$755,993 64
		D.		7	4						
		PRO	PIT AR	ע עו	ORR V	recorr	T.		Dr.		CR.
Balance June 30, 18	895							<b>8</b> 24		68	
Balance of gas man									.,.,.		\$198,237 23
Balance of electric											14,493 60
Boston contract,			•		•						52,274 14
Other items of inco				•	•						16,543 66
Interest paid,		•	•	•	•	•	•	15	5,216	54	.0,020 00
Depreciation, .		•	•	•	•	•	•		2,187		
Reserved fund, .				•	•	•	•		5,000		
		•	•	٠	•	•	•		•		
•	· ·	•	•	•	•	•	•	,	0,264	שט	202 505 72
Balance June 30, 18	<b>89</b> 6, .	•	•	•	•	•	•				<b>303,595</b> 75
								\$58	5,144	38	\$585,144 38

# CAMBRIDGE ELECTRIC LIGHT COMPANY.

		As	BETS.					
Real estate,		21.0	,ob10.					<b>3</b> 78,152 51
Steam plant,	• •	•		•	•		•	95,057 85
Electric plant,	• •	•		•	•		•	106,086 40
Electric lines,	•	•	• •	•	•	• •	•	118,325 33
Meters	•	•	• •	•	•	• •	•	10,726 71
Transformers,				•	·	•	•	25,666 82
								25,344 61
Arc lamps,  Due for light and power,  Fuel on hand,							·	13,359 78
Fuel on band.								2,968 10
Carbons on hand, .								276 55
Oil and waste on hand,								98 82
Globes on hand, .								157 34
Other materials on hand,								584 37
Fixtures on hand, .								1,745 73
Horses, wagons, etc.,								800 00
Sundry accounts due the	ompany	, .						2,659 30
Office furniture, .								417 00
Cash on hand,								4,647 44
Notes receivable, .								410 33
Insurance,								300 00
Total assets, as per bo	oks of th	a con	nanv.				_	\$487,784 99
Toom about, at per of		.0 0011	· post.j ,		•	•	·	<b>Q101</b> ,101
		• .						
		LIAB	ILITI	38.				
Capital stock,								<b>\$200,000</b> 00
Bonds issued,								200,000 00
Notes payable,								60,000 00
Unpaid bills,								3,477 28
Interest due but not paid,								6,000 90
Total liabilities, as pe	r hooks	of the	comns	inv.				\$469,477 28
Profit and loss balance,						• •	•	18,307 71
real and root balance,	• •	•		•	•	•	•	
								<b>\$4</b> 87,784 99
	MANU	PACTU	RING	Accor	INT.			
	•		22			Dı		CR.
Operating expenses, .		•		•	•	\$82,28	5 58	
Income from sale of light				•	•			<b>\$119,883</b> 78
Balance to profit and loss,		•		•	•	37,59	3 <b>2</b> 0	
	•					2119.88	3 78	8119,883 73
		•				<b>\</b>	• • •	•
	Profit	C AND	Loss	Acco	UNT.	Dı	<b>.</b>	Chr
Balance June 30, 1895,			_			υ.	•	\$18,031 45
Balance of manufacturing								37,598 36
Wiring account, .								164 23
Interest paid,						\$15,08	6 17	-
Dividends declared, .						12,00		
Depreciation,						10,00		
Other items,						40	00 0	
Balance June 30, 1896,						18,30	7 71	
						\$55,79	3 60	\$55,793 88
						φω, ( σ		<b>Ann</b> *1 20 00

# CAMBRIDGE GAS LIGHT COMPANY.

					SETS	١.							
Real estate,				_								<b>270,920</b>	67
Machinery and					38.				-			344,292	
Street mains,												369,902	
Meters, .												30,000	
Due for gas.												45,103	
Due for gas, Coal on hand,												20,532	
Coke on hand,												7,875	
Tar on hand.												112	
Other materials	on hand.											10,349	
Fixtures on har												946	
Sundry account												4,218	
Investments,												101,375	
Total assets					nag	v.			_		- 5	1,005,627	
						, ,					- 1	,,,,,,,,,,,	
				LIAI	BILIT	TES.							
Capital stock,		•		•			•				•	\$700,000	00
Deposits, .		•				•						3,451	60
Amounts due fr	rom the co	mpa	ny, n	ot inc	clude	d ab	ove.	٠	•	•	•	5,053	74
Total liabil	ities, as p	er bo	oks o	f the	com	pany	, .					\$708,505	34
Profit and loss	balance,			•	•		•				•	297,122	48
											3	1,005,627	82
		M	LANU	PACTU	RING	a Ac	COU	NT.			,	,-,,	
												_	
										Dr.		Cr.	
Operating exper	•			•					<b>\$</b> 164		08		
Income from sa	le of gas,		:	•	•	•	:	:			08	\$230,540	
Income from sa	le of gas, siduals,		:		•	· ·	•	:			08	\$230,540 34,025	59
Income from sa	le of gas, siduals, her sourc	es,		•	• • •			:	<b>\$</b> 164	,543		\$230,540 34,025 520	59
Income from sa	le of gas, siduals, her sourc	es,							<b>\$</b> 164			\$230,540 34,025 520	59
Income from sa	le of gas, siduals, her sourc	es,					· · ·	•	100	,543 ,543	11	\$230,540 34,025 520	59 34
Income from sa	le of gas, siduals, her sourc	es, s,	•		Los				100	,543 ,543	11	\$230,540 34,025 520	59 34
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Income from sa re ot Balance to profi  Balance of man Interest receive Rents, Dividends decle Other items, Balance June 3  CER Real estate, Steam plant,	de of gas, siduals, her source tand loss tand	es, es, Pr	copit count,	HUS	ETT	S E			\$164 100 \$265 \$70 1 297 \$368	,543 ,086 Dr. ,000 ,313 ,122 3,435	11 19 00 05 48 53	\$230,540 34,025 520 \$265,086 CR. \$264,617 100,543 2,399 876 \$368,435 Y.	59 34 19 25 11 01 16 53
Income from sa re ot Balance to profi  Balance June 36 Balance of man Interest receive Rents, Dividends decla Other items, Balance June 36  CEN  Real estate, Steam plant, Electric plant,	de of gas, siduals, her source it and loss of the source it and loss of the source it and loss of the source of th	es, es, Pr	copit count,	HUS	ETT	S E			\$164 100 \$265 \$70 1 297 \$368	,543 ,086 Dr. ,000 ,313 ,122 3,435	11 19 00 05 48 53	\$230,540 34,025 520 \$265,086 CR. \$264,617 100,543 2,399 876 \$368,435 Y.	59 34 19 25 11 01 16 53
Income from sa re ot Balance to profi  Balance June 36 Balance of man Interest receive Rents, Dividends deck Other items, Balance June 36  CEN Real estate, Steam plant, Electric plant, Electric lines.	de of gas, siduals, her source it and loss of the source it and loss of the source it and loss of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of th	es, es, Pr	copit count,	HUS	ETT	S E			\$164 100 \$265 \$70 1 297 \$368	,543 ,086 Dr. ,000 ,313 ,122 3,435	11 19 00 05 48 53	\$230,540 34,025 520 \$265,086 CR. \$264,617 100,543 2,399 876 \$368,435 Y.	59 34 19 25 11 01 16 53
Income from sa re ot Balance to profi  Balance June 36 Balance of man Interest receive Rents, Dividends decla Other items, Balance June 36  CEN  Real estate, Steam plant, Electric plant,	de of gas, siduals, her source translation of the source translation of the source translation of the source of th	es, es, Pr	copit count,	HUS	ETT	S E			\$164 100 \$265 \$70 1 297 \$368	,543 ,086 Dr. ,000 ,313 ,122 3,435	11 19 00 05 48 53	\$230,540 34,025 520 \$265,086 CR. \$264,617 100,543 2,399 876 \$368,435 Y.	59 34 19 25 11 01 16 53

xxiv	GAS	AND	EL	ECTI	RIC	LI	GHT.		[Jan.
									-
			•		•	•		•	<b>\$6,769 87</b>
		• •	•		•	•		•	<b>30,00</b> 0 00
Due for light an	d power,		•						<b>4,33</b> 1 16
Fuel on hand, Carbons on hand			•			•			15 00
Carbons on hand	d, .				•	•		•	64 00
Oil and waste or	n hand,								30 00
Incandescent lar	nps on ha	ınd, .							<b>75 80</b>
Horses, wagons,	, etc.,								279 70
Sundry accounts	due the	company,							11,929 14
Office furniture,									204 70
Cash on hand,									209 86
Tools, .			•						25 00
Total assets	, as per b	ooks of th	16 COI	mpany,					<b>\$3</b> 21,941 95
			LIAI	BILITIES.	ı				
Capital stock,									\$150,000 00
Bonds issued,									105,500 00
Notes payable,									61,442 94
Unpaid bills,									4,560 69
Total Habilt		- haaba -	• • • •		_				
Total liabilit	ales, as pe	L DOORS O	т ппе	compan	,	•			\$321,503 63 438 32
. Front Bild 1088 D	anance,	• •	•	•	•	•	• •	•	100 02
•									<b>\$321,941 95</b>
		MANU	PACTU	RING A	CCOUN	IT.	_		_
On another a common							DE		Ca.
Operating expen Income from sale	968, .		•		•	•	<b>\$</b> 9,076	• •••	A19 070 91
Income from 881	e or ngnt	ana powe	r,		•	•	0.004	01	<b>\$18,97</b> 0 31
Balance to profit	and loss,	•	•		•	•	9,894	31	
							\$18,970	31	\$18,970 31
		PROFIT	AND	Loss A	CCOU	T.			
D-1 7 00	100#						Dr.		Car.
Balance June 30,					•	•			\$160 09
Balance of manu				•	•	•			9,894 31
Interest paid,	• •	• •		• •	•	•	\$9,405	30	
Depreciation, Balance June 30,		• •	•		•	•	210		
Balance June 30,	1896,	• •	•		•	•	438	32	
							\$10,054	40	\$10,054 40
			-		-				
OTT 4	DI HOM	O		NT D1	T-000		2015B		
CHA	RLEST	JWN GA	rs v	ND EF	ECT	KIC (	COMPA	NY	•
			Ar	SBTS.					
Real estate (gas)									\$138,589 00
Machinery and n		ring appl	iance	8 (gas).					163,082 98
Street mains (ga									179,376 10
Meters (gas),									25,129 79
Due for gas, .									12,563 02
Gas coal on hand	ı, .								5,436 86
Ammoniacal liqu		ıd, .							135 95
Enrichers on han								•	463 29
Stoves on hand,									76 32
Real estate (elec								•	20,000 00
Steam plant (elec								:	15,150 00
Electric plant,			:		•	:		:	28,506 29
Electric lines.	•				•	•		•	15,000 00
Meters (electric)	•		•		•	•		•	1,093 58
TATERETS (SIECHLIC)	, .	• •	•		•	•		•	7,400 20

1897.] .	PU	BL	IC	DOC	UI	ME	NT.	<u> </u>	Vo.	35.		xx	v
Transformers, .												<b>\$2,35</b> 8	43
Arc lamps, .							:					13,396	
Due for electric li												4,067	
Fuel on hand (ele	ectric	).     .						•	-	_		2,293	
Sundry accounts	due i	the co	m Da	nv			Ž		•	•		1,322	
Cash on hand, .			p	,,,	·		•	•	•	•	•	3,601	•
	-	•	٠	•	•	•	•	•	•	•	•	0,001	_
Total assets,	<b>a</b> s pe	r boo	ks of	f the co	mpa	ny,	•		•	•	•	\$631,643	33
				Lia	BILI	TIBS.							
Capital stock, .												\$500,000	00
Notes payable, .												73,200	00
Unpaid bills, .												3,772	45
Deposits,												1,319	
													_
Total liabiliti	68, AI	s per	book	s of the	con	npany	7,					\$578,291	69
Profit and loss ba								•	•			53,351	
												<b>\$</b> 631,643	— 33
			MAN	TUPACT	URIN	IG A	ccov	NT.		DR.		Cr.	
		OBS.							<b>£</b> 10	),444	53	CE.	
Operating expens	es,	elect	ric .		•	•	•	•	•	l,132			
Income from sale					•	•	•	•		., 102	O1	<b>6121 402</b>	10
	_			•	•	•	•	. •				\$131,496	
		•		• •	•		•	•				21,842	
				t and p			•	•	-		00	40,589	US
Balance to profit	and l	loss, _	ga	B, .	•	•	•	•	Ð	2,894	23		
			( 616	ctric,	•	•	•	•	,	<b>9,4</b> 57	07		
									\$193	3,927	84	\$193,927	— 84
			Proi	IKA TIS	Lo	88 A	<b>cc</b> ou	NT.				_	
Dalamas Imps 20	1005									Dr.		CR.	
Balance June 30, Balance of gas ma					•	•	•	•				<b>\$</b> 37,357	
						•	•	•				52,894	
Balance of electri				-	unt,	•	•	•				9,457	
Rents,			•	•	•	•	•	•				72	
Other items of inc	ome,	, .	•	•	•	•	•	•				279	92
Interest paid, .	•	•	•	•	•	•	•	•	•	3,783			
Dividends declare				•	•	•	•	•		0,000			
Construction char	ged (	off, .	•	•	•	•	•	•		,236			
Depreciation, .				•	•	•				,223			
Other items, .				•	•	•				,466			
Balance June 30,	1896,	•	٠	•	•	•	•	•	53	3,351	64		
									\$100	,060	93	\$100,060	 93
						_							
	(	CHEI	SEA	GAS	LI	GHT	CO	MPA	NY.				
					88R	TS.							
Real estate (gas),												\$170,000	00
Real estate (gas), Machinery and a				applia	-	, stre	et m	ains	and	met		\$170,000	00
		factu		applia	-	, stre	et m	nains	and	met		\$170,000 ( 130,000 (	
Machinery and	nanu	factu		applia	-	, stre	et m	nains	and	met		• • •	00
Machinery and i	nanu •	factu		applia	-	, stre	et m		•	•	ers	130,000	00 49

xxvi	GAS	AN	D	EI	ŒC	ΥF	RIC	LI	GHT.		[Jan.
Stoves on hand,											\$15 54
Real estate (elec			•								14,157 16
Steam plant (ele	ctric).										28,744 27
Electric plant,			•								30,251 70
Electric lines,											42,879 19
			•								4,000 00
Meters (electric) Transformers,											4,000 00
Due for electric	light and	powe	r,								6,308 39
Fuel on hand (e											1,100 00
Sundry accounts	due the	comp	any,								1,687 20
Cash on hand,			•			•					829 73
Total assets	, as per b	ooks	of th	e con	npan	у,		•		•	<b>8452,180</b> 96
			·	Liai	BILIT	ries.					
Capital stock,											\$300,000 00
Bonds issued,											100,000 00
Notes payable,											10,000 00
Deposits, .											2,039 76
Unpaid dividend	ls, .										18 <b>3 0</b> 0
Reserve fund,		•	•	•	•	•	•	•		•	400 00
Total liabili	ties, as pe	r boo	ks o	f the	com	Dany	<b>7.</b> .				\$412,622 76
Profit and loss b											<b>39,5</b> 58 <b>2</b> 0
											<b>\$452,180 96</b>
		M	LNU	FACTI	BIN	G A	COOUR	IT.			
									Dr.		Cz.
Operating expen	ses, fga	8,	•	•	•	•	•	•	\$36,663		
				•	•	٠	•	•	35,833	25	
Income from sal	e of gas,	•	•	•	•	•	•	•			<b>\$48,64</b> 8 98
					•		•	•			7,743 01
68	e of elect	ric lig	bt a	nd po	wer,	, .	•	•			53,120 52
Balance to profi	t and loss	, { ^g	28,	.•	•	•	•	•	19,728		
_		( 6	iectr	1C,	•	•	•	•	17,287	27	
									\$109,512	51	<b>\$109,</b> 512 51
		P	ROFI	T AN	D L	088 .	Acco	UNT.			
									Dr.		Cr.
Balance June 30	, 1895,										\$47,471 53
Balance of gas 1	manufacti	uring	acco	ount,							19,728 09
Balance of elect	ric manui	actur	ing :	accou	ınt,						17,287 27
Rents, .				•			•				210 00
Jobbing account			•	•	•		•	•			490 25
Other items of i	ncome,	•		•		•	•	•			18 63
Interest paid,	• •	•		•	•	•	•	•	\$5,974		
Dividenda decla	•	•	•	•	•	•	•	•	12,000		
Construction ch			•	•	•	•	•		2,085		
Depreciation,		•	•	•	•	•	•	•	20,587		
Sinking fund,			•	•	•		•		5,000		
Balance June 30	, 1896,	•	•	•	•	•	•	•	39,558	20	
									\$85,205	77	\$85,205 77

#### CHICOPRE ELECTRIC LIGHT COMPANY.

# /Then 91 1905 \

					(De	c. 31,	1898	5.)						
						Asse	T8.							
Real estate,						•	•		•		•		<b>\$1,020</b>	
Steam plant,			•	•	•	•	•	•	•	•	•	•	2,414	
Electric plant,	•		•	•	•	•	•	•	•	•	•	•	5,524	
Electric lines,	•	•		•	•	•	•	•	•	•	•	•	4,296	
Due for electric	light	and	pow	er,	•	•	•	•	•	•	•	•	743	75
Total asset	s, as p	er b	ooks	of th	e co	mpa	ny,						\$14,000	43
Profit and loss	balanc	æ,					•		•	•	•	•	5,552	84
													\$19,553	27
					L	ABILI	TIB8						•	-
Capital stock,													<b>\$10,000</b>	00
Notes payable,													6,447	
Unpaid bills,													3,105	
			an ba	olen o	Ø 4h								<b>010 552</b>	97
Total liabil	Itles, 8	ьв р	et po	OK8 C	i th	e con	apan	у,	•	•	•	•	<b>\$19,55</b> 3	Z/
			M	[anu	PAO1	TURIN	īG A	.coov	NT.					
				(1	'n D	ec. 3	1. 18	95.1						
				, -			-, -0	,			Dr.		CR.	
Operating expe						•				8	5,128	18		
Income from sa	de of li	lghi	and	powe	r,	•		•	•				\$4,377	
Balance to prof	lt and	lose	ı,	•	•	•	•	•	•				751	02
										8	5,128	18	85,128	18
			P	ROPIT	AN	n Lo	88 <i>A</i>	Lccor	INT.	•	•			
										_	DR.		Cr.	
Balance June 3	0, 1895	,	•	•	•	•	•	•	•	84	1,547			
Balance of man	uractu	rin,	g acc	ount,		•	•	•	•		751			
Interest paid,			•	•	•	•	•	•	•		254	77	AK 550	04
Balance June 36	D, 1896	•	•	•	•	•	•	•	•	_		_	\$5,552	84
										8	5,552	84	<b>\$</b> 5,552	84
			CHI	COP	BE	GA	S CC	OMP.	ANY.				•	
						Asse.	rs.							
Real estate,													\$22,000	00
Machinery and						-							9,200	
						•							6,500	
Meters													2,200	00
Due for gas,													946	65
Coal on hand,													120	16
Coal on hand, Enrichers on ha	ınd, .												251	<b>9</b> 6
Purifying mater	rials o	n ba	and,										72	00
Stoves on hand,													443	20
Office furniture.													100	00
Cash on hand,								•					3,453	85
Total assets	s, as p	er b	ooks	of th	e co	mpa	ny,	•		•			\$45,287	82

xxviii	GAS	AND	EI	Æ	CTR	ic	LI	GHT.	[Jan.
			Lī	ARIT	LITIES	ı.			
Capital stock,									<b>\$</b> 40,000 <b>0</b> 0
•					•	•	•		
Total liabili Profit and loss l							•		\$40,000 00 5,287 82
Front and loss i	verserice,	• •	•	•	•	•	•		3,287 82
									<b>\$45,28827</b> 5
		MANU	PACT	URIN	₹G Å	COU	NT.		
		(1	From	Jan	. 1, 18	396.)		Dr.	Cn.
Operating exper	1868, .							<b>8</b> 5,781 61	
Income from sa	le of gas,								<b>\$7,686 45</b>
Balance to profi	t and loss	, .	•		٠.	•		1,904 84	
								\$7,686 45	\$7,686 45
		Propi	T ANI	L	088 A	ccor	NT.	De	~
Balance of man	ufacturin	z account						Dr.	Cr. \$1,904 84
Operation of mu				nt.					2,163 35
Other items of i			,						3,311 21
Construction ch	arged off,		<b>′</b> .					\$1,056 58	•
Depreciation,								1,035 00	
Balance June 30	, 1896,					•	•	5,287 82	
								87,379 40	\$7,379 40
		CHIC		88 B 1		, 010	<b>.</b>		
		• . •		•	•				\$20,000 00
Machinery and						•	•		1,684 00
Street mains, Meters, .		• •	•	•	•	•	•		6,500 00
•		: :	:	:	:	•	•		2,200 00 1,737 65
Coal on hand,			•	•	:	•	•		76 00
Enrichers on ha									225 00
Purifying mater	ials on h								36 00
Stoves on hand,									194 31
Office furniture,			•		•	•	•		100 00
Cash on hand,		• •	•	•	•	•	•		1,199 30
Total assets	, as per b	ooks of t	he cor	mpa	ny,		•		\$33,952 26
			T						
Capital stock,			LIA:	BILI	TIES.	_			<b>830,000</b> 00
- '		•	•	•	•	•	•	· · ·	
Total liabili		er books	of the	con	ipany	, .	•		
Profit and loss b	aiance,	• •	•	•	•	•	•		3,952 26
		<b>M</b>					_		\$33,952 26
		MANU					1.		
		C	Го De	c. 3	1, 189	o.)		Dr.	Cr.
Operating expen				•		•		<b>\$3,831 62</b>	
Income from sal			•	•	•	•	•	0 500 50	\$7,352 15
Balance to profit	and loss,		•	•	•	•	•	3,520 53	
								<b>\$7,3</b> 52 15	<b>\$7,352</b> 15

		ъ.								
		P	ROPIT	AN	D Lo	88 A	CCOL	NT.	Dr.	Cr.
Balance June 3	0, 1895,									\$21,967 22
Balance of man		g acc	œunt,							3,520 53
Interest receive			•							254 77
Other items of	income,	•	•	•			•			624 47
Dividends decl Construction c	ared, .				•				\$17,857 84	
Construction c	harged off,	, •		•				•	1,344 99	
Depreciation,			•						2,995 43	
Other items,			•	•			•		216 47	
Balance Dec. 3	1, 1895,	•	•	•		•	•	•	3,952 26	
			_						\$26,366 99	\$26,366 99
	CHICO	PEE	M A	NU.	FAC	TUR	ING	CO	IPANY.	
		M	LANUI	ACT	URIN	G A	CCOU	NT.	Dz.	Ca.
Operating expe	nses.								\$3,859 20	V.
Income from se	•	• .			-	•	·	•	<b>4</b> 0,000 20	<b>23.835</b> 20
Balance to prof			•		Ċ	•	•	•		24 00
		,	•	•	•	•	•	•	<u>_</u>	
			-						<b>\$3,8</b> 59 <b>2</b> 0	<b>\$3</b> ,859 20
	ale of electi team heatin	ric li ng,	ight a	nd j	powe		· ·	:	<b>\$18,622</b> 90	<b>\$24,463</b> 00 4,816 85
Balance, .		•	•	•		•		•	10,656 95	
			_						<b>\$29,279</b> 85	\$29,279 85
C	ITIZENS'	GA	s li				ANY	OF	QUINCY.	
	ITIZENS'	GA	s li		T C		ANY	OF	QUINCY.	
Real estate,					Asse		ANY	7 OF	QUINCY.	
Real estate, Machinery and	manufact	urin	g app		Asse		ANY	, OF	QUINCY.	16,126 50
Real estate, Machinery and Street mains,	manufact	urin			Asse				QUINCY.	16,126 50 32,945 31
Real estate, Machinery and Street mains, Meters,	manufact	urin	g app		Asse				QUINCY.	16,126 50 32,945 31 3,238 11
Real estate, Machinery and Street mains, Meters, . Due for gas,	manufact	urin	g app		Asse				QUINCY.	16,126 50 32,945 31 3,238 11 2,629 05
Real estate, Machinery and Street mains, Meters, . Due for gas, Coal on hand,	manufact	urin	g app		Asse				QUINCY.	16,126 50 32,945 31 3,238 11 2,629 05 1,605 00
Real estate, Machinery and Street mains, Meters, Due for gas, Coal on hand, Coke on hand,	manufact	urin	g app		Asse				QUINCY.	16,126 50 32,945 31 3,238 11 2,629 05 1,605 00 1 50
Real estate, Machinery and Street mains, Meters, Due for gas, Coal on hand, Coke on hand, Tar on hand,	manufact	urin;	g app		Asse				QUINCY	16,126 50 32,945 31 3,238 11 2,629 05 1,605 00 1 50 549 00
Real estate, Machinery and Street mains, Meters, Due for gas, Coal on hand, Coke on hand, Tar on hand, Stoves on hand	manufact	urin	g app		Asse				QUINCY	16,126 50 32,945 31 3,238 11 2,629 05 1,605 00 1 50 549 00 235 15
Real estate, Machinery and Street mains, Meters, Due for gas, Coal on hand, Coke on hand, Tar on hand, Stoves on hand Fixtures on hand	manufact	urin;	g app		Asse				QUINCY	16,126 50 32,945 31 3,238 11 2,629 05 1,605 00 1 50 549 00 235 15
Real estate, Machinery and Street mains, Meters, Due for gas, Coal on hand, Coke on hand, Tar on hand, Stoves on hand Fixtures on ha Horses, wagons	manufact	urin;	g app		Asse			. OF	QUINCY.	16,126 50 32,945 31 3,238 11 2,629 05 1,605 00 1 50 649 00 235 15 240 00 515 90
Real estate, Machinery and Street mains, Meters, Due for gas, Coal on hand, Coke on hand, Tar on hand, Stoves on hand Fixtures on ha Horses, wagons Office furniture	manufact	urin;	g app		Asse			. OF	QUINCY	16,126 50 32,945 31 3,238 11 2,629 05 1,605 00 1 50 549 00 235 15 240 00 515 90 100 00
Real estate, Machinery and Street mains, Meters, Due for gas, Coal on hand, Coke on hand, Tar on hand, Stoves on hand Fixtures on hand	manufact	urin;	g app		Asse			. OF	QUINCY.	16,126 50 32,945 31 3,238 11 2,629 05 1,605 00 1 50 649 00 235 15 240 00 515 90
Real estate, Machinery and Street mains, Meters, Due for gas, Coal on hand, Coke on hand, Tar on hand, Stoves on hand Fixtures on hand Horses, wagons Office furniture Cash on hand,	manufact	. urin,	. app		Asser ces,	rs		* OF	QUINCY.	16,126 50 32,945 31 3,238 11 2,629 05 1,605 00 1 50 549 00 235 15 240 00 515 90 100 00 186 67
Real estate, Machinery and Street mains, Meters, Due for gas, Coal on hand, Coke on hand, Tar on hand, Stoves on hand Fixtures on hand Horses, wagons Office furniture Cash on hand, Total assets	manufacti	urin	g app		Asser ces,	rs		· OF	QUINCY.	32,945 31 3,238 11 2,629 05 1,605 00 1 50 649 00 235 15 240 00 515 90 100 00 186 67
Real estate, Machinery and Street mains, Meters, Due for gas, Coal on hand, Coke on hand, Tar on hand, Stoves on hand Fixtures on hand Horses, wagons Office furniture Cash on hand,	manufacti	urin	g app		Asser ces,	rs		· · · · · · · · · · · · · · · · · · ·	QUINCY.	16,126 50 32,945 31 3,238 11 2,629 05 1,605 00 1 50 549 00 235 15 240 00 515 90 100 00 186 67

^{*} Gas used in the mills of the company not included in the income given.

[†] Not including income from electricity and heat in buildings of which the company is lessor.

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1		an
1	w	au.

# GAS AND ELECTRIC LIGHT.

				•								
<b>6</b> . 4.1				LIA	BILI	TIBS	•					ene non no
Capital stock,		•	•	•	•	•	•	•	•	•	•	\$33,000 00
Notes payable, . Unpaid bills, .			•	•	•	•	•	•	•	•	• •	43,599 10 990 60
Oupaid oms, .	•	•	•	•	•	•	•	•	•	•	•	390 00
Total liabilities	s, <b>as</b> p	er bo	oks	of the	con	npan	у, .	•			•	\$77,589 70
			<b>4</b>			A						
			LANU	PACT	URIN	IG A	CCOU!	NT.		Dr.		CP.
Operating expenses			•	•	•	•	•		\$1	4,799	35	<b></b>
Income from sale of	of gas,	•	•	•	•	•	•	•				<b>\$15,156</b> 78
	uals,		•	•	•	•	•	•				1,640 16
	sourc			•	•	•	•	•		0 191	10	133 63
Balance to profit as	7G 108	В,	•	•	•	•	•	•		2,131	12	
									91	6,930	47	\$16,930 47
		_			_				Ψ.	0,000		<b>\$</b> 10,000 1
		P	ROPI	T AN	D Lo	088 A	Lccou	NT.		Dr.		C1L
Balance June 30, 1	895.								2	9,847		
Balance of manufa		g 80	coun	t.					*	,		\$2,131 12
				<i>.</i>								90 00
Jobbing account,												345 94
Other items of inco	me.											17 80
Interest paid, .										2,454	76	
Balance June 30, 1	896,											9,717 61
									-			
CITIZENS' GAS	LIG	нт	COL	(PAN	IV.	OF	RRA	DI	īG,	sou	TH	READING
							AM.					
<b>.</b>			A	ND 8	STO Assu	NBH						
Real estate,				ND 8	STO Assu	NEH Ts.					٠.	\$13, <b>3</b> 84 75
Machinery and ma	nufac	turin	A. g ap	ND s	STO Assu	NEH Ts.					٠.	30,027 13
Machinery and ma Street mains, .	nufac	turin	A. g ap	ND s	STO Assu	NEH Ts.		•			٠.	30,027 13 39,289 31
Machinery and ma Street mains, . Meters,	nufac	turin	A. g ap	ND s	STO Assu	NEH Ts.					·. ·	30,027 13 39,289 31 2,077 64
Machinery and ma Street mains, Meters, Other gas materials	nufac	turin and,	A. g ap	ND &	STO Assu	NEH Ts.					·. ·	30,027 13 39,289 31 2,077 64 150 00
Machinery and ma Street mains, Meters, Other gas materials Stoves on hand,	nufac	turin and,	A. g ap	ND s	STO Assu	NEH Ts.					·. ·	30,027 13 39,289 31 2,077 64 150 00 403 21
Machinery and ma Street mains, . Meters, . Other gas material Stoves on hand, Office furniture,	nufac	turin and,	<b>A</b> :	nD 8	Assu Assu	NEH Ts.					• • • • • • • • • • • • • • • • • • • •	30,027 13 39,289 31 2,077 64 150 00 403 21 202 35
Machinery and ma Street mains, Meters, Other gas materials Stoves on hand,	nufac	turin and,	A. g ap	ND &	STO Assu	NEH Ts.					·	30,027 13 39,289 31 2,077 64 150 00 403 21
Machinery and ma Street mains, . Meters, Other gas material Stoves on hand, Office furniture, Cash on hand, .	s on h	and,	. g ap	ND 8	Assu	NEH						30,027 13 39,289 31 2,077 64 150 00 403 21 202 35
Machinery and ma Street mains, Meters, Other gas material Stoves on hand, Office furniture, Cash on hand,	nufacts on h	turin . and, book	g ap	ND 8	Assu	NEH						30,027 13 39,289 31 2,077 64 150 00 403 21 202 35
Machinery and ma Street mains, . Meters, Other gas material Stoves on hand, Office furniture, Cash on hand, .	nufacts on h	turin . and, book	g ap	ND 8	Assu	NEH					•	30,027 13 39,289 31 2,077 64 150 00 403 21 202 35 27 \$85,534 66 47,114 90
Machinery and ma Street mains, Meters, Other gas material Stoves on hand, Office furniture, Cash on hand,	nufacts on h	turin . and, book	g ap	ND s	Assu	NRH	: : : : :					30,027 13 39,289 31 2,077 64 150 00 403 21 202 35 27 \$85,534 66
Machinery and ma Street mains, Meters, Other gas material Stoves on hand, Office furniture, Cash on hand, Total assets, a Profit and loss bal	nufacts on h	turin . and, book	g ap	ND s	Assu	NEH	: : : : :					30,027 13 39,289 31 2,077 64 150 00 403 21 202 35 27 \$85,534 66 47,114 90 \$132,649 56
Machinery and ma Street mains, Meters, Other gas material Stoves on hand, Office furniture, Cash on hand, Total assets, a Profit and loss ball	nufacts on h	turin . and, book	g ap	ND s	Assu	NRH	: : : : :				•	30,027 13 39,289 31 2,077 64 150 00 403 21 202 35 27 \$85,534 66 47,114 90 \$132,649 56
Machinery and ma Street mains, Meters, Other gas material Stoves on hand, Office furniture, Cash on hand, Total assets, a Profit and loss ball Capital stock, Bonds issued,	s on h	turin . and, book	g ap	ND 8	STOI	NRH						30,027 13 39,289 31 2,077 64 150 00 403 21 202 35 27  \$85,534 66 47,114 90  \$132,649 56 \$50,000 00 45,000 00
Machinery and ma Street mains, Meters, Other gas material Stoves on hand, Office furniture, Cash on hand, Total assets, a Profit and loss ball Capital stock, Bonds issued, Notes payable,	nufacts on h	turin . and, book	g ap	ND s	Assu	NRH	: : : : :					30,027 13 39,289 31 2,077 64 150 00 403 21 202 36 27  \$85,534 66 47,114 90  \$132,649 56  \$50,000 00 45,000 00 35,300 00
Machinery and ma Street mains, Meters, Other gas material Stoves on hand, Office furniture, Cash on hand, Total assets, a Profit and loss ball Capital stock, Bonds issued,	s on h	turin . and, book	g ap	ND 8	STOI	NRH					• • • • • • • • • • • • • • • • • • • •	30,027 13 39,289 31 2,077 64 150 00 403 21 202 35 27  \$85,534 66 47,114 90  \$132,649 56 \$50,000 00 45,000 00

		M	[ANT	TAO1	WRIN	ro A	COT!	NT-				
								<b>-</b>		DR.		Cn.
Operating expenses, Income from sale of	•	•	•	•	•	•	•	٠	\$12	2,216	77	
income from sale of	gas,	•	•	•	•	•	•	•				<b>\$8,231</b> 09
other s		-	•	•	•	•	•	•				291 33
Balance to profit and	l loss	5,	•	•	•	•	•	•				3,694 35
												A10.014.55
									<b>\$</b> 12	2,216	77	<b>\$12,216</b> 77
		P	ROPI	T AN	D L	DRS A	CCOT	INT.				
										Dr.		Cz.
Balance June 30, 189		•		•	٠	•	•	•		,478		
Balance of manufact	turin	gaco	oun	t, .	•	•	•	•		3,694	35	
Reduction of capital	stoc	k,		•	•	•	•	٠	_			<b>\$32,302</b> 62
Interest paid, .			•	•	•	•	•	•		5,250	00	
Balance June 30, 189	96,	•	•	•	•	•	•	•				47,114 90
											_	
									\$7	9,417	52	\$79,417 52
			-				_					
	CI	INI	'ON	GA	3 LI	GHT	CO	MPA	NY.			
					A881	tra.						
Real estate (gas),		_		_						_	_	<b>\$27,000</b> 00
Street mains (gas),		•	•	•	•	•	•	•	•	•	•	9,000 00
Meters (gas), .	•	•	•	•	•	•	•	•	•	•	•	1,000 00
Gas coal on hand,		•	•	•	•	•	•	•	•	•	•	1,785 80
Coke on hand, .	•	:	•	•	•	•	•	•	•	•	•	17 00
Tar on hand, .	•		•	•	•	•	•	•	•	•	•	260 00
Tar on hand, . Enrichers on hand,	•	•	•	•	•	•	•	•	•	Ċ	•	117 85
Purifying materials	on h	end	•	•	•	•	•	•	•	•	•	25 00
Other gas materials	on h	and,	•	•	•	•	•	•	•	•	•	276 17
Real estate (electric)		•	•	•	•	•	•	•	•	•	•	24,000 00
Steam plant (electric			•	•	•	•	•	•	•	•	•	15,000 00
			٠	•	•	•	•	•	•	•	•	17,000 00
Riectric plant, . Riectric lines, .	•	•	•	•	•	•	•	•	•	•	•	54,000 00
Ricctric lines, . Fuel on hand (electric lines,	-ia\	•	•	•	•	•	• .	•	•	•	•	1,484 20
Carbons on hand,	uc,	•	:	•	•	•	•	•	•	•	•	100 00
Oil and waste on ha		•				•	•	•	•	•	•	28 75
Incandescent lamps						•	•	•	•	•	•	60 16
Other electric mater						•	•	•	•	•	•	708 44
Sundry accounts du						•	•	•	•	•	•	69 29
Office furniture,						•	•	•	•	•	•	200 00
Cash on hand, .		•	•			•	•	•	•	•	•	3,045 71
Cash on hand, .	•	•	•	•	•	•	•	•	•	•	•	3,010 /1
Total assets, as	ner '	haak		the c	MEN IN	anv						\$155,178 37
1000 0000, 00	pu	-			~mp	, ,	•	•	•	•	•	<b>\$100,170 0</b>
				Lı	ABIL	ITIBS						
Capital stock, .												\$73,000 00
Notes payable, .												74,000 00
/												
Total liabilities,	, as <u>r</u>	er b	ooke	of t	he co	mpan	y,					\$147,000 00
Profit and loss balan			٠.				•					8,178 37
	•											
												\$155,178 37

		b	(ANU	PACT	URING	3 Ac	200U	NT.			
•									Dr		Cr.
Operating expens	es, ∫ ga	٥,	c,	•	•	•	•	•	\$12,30		
	{ ele	ectri	с,		•	•	•	•	12,31	7 66	
Income from sale resid	of gas,	•	•	•	• •	•	•	•			<b>\$13,776 42</b>
				•	•	•	•	•			1,585 53
sale	of elect	ric l	ight a	nd p	ower,	•	•	•			14,197 61
Balance to profit	and los	ss. S	gas,	•	•	•	•	•	3,05		
Balance to profit		_,5	electr	ic,	•	•	• .	٠	1,87	9 95	
		P	ROFIT	ANI	Los	8 A	ccou	NT.	<b>\$29,55</b>	9 56	<b>\$29,559</b> 56
									Dr.		Cr.
Balance June 30,		•	•		•	•	•				<b>\$</b> 7,332 01
Balance of gas ma	nufactu	ring	accoi	unt,	•						3,055 40
Balance of electric	manuf	actu	ring s	ccou	nt,						1,879 95
Interest paid, .				•					<b>\$</b> 3,707	7 69	
Depreciation, .	•								148	3 00	
Other items, .									233	30	
Balance June 30, 1	1896,	•	•	•	•	•	•	•	8,17	3 37	
			_				_		\$12,26	<b>3</b> 6	\$12,267 36
	CO	HAS	SET	EL	ECTI	RIC	COL	(PA)	NY.		
				A	.88BT	3.					
Real estate, .											\$4,221 89
Steam plant, .											9,182 32
Fleatric plant											17,914 51
Electric lines, Due for light and Fuel on hand, Oil and waste on h Incandescent lamp Cash on hand,	_		-	_	-	_	-				14,073 32
Due for light and	nower.	-								•	712 30
Fuel on hand.	poc.,	•	•	•	•	•	•	•	•	•	41 50
Oll and wests on h	and	•	•	•	•	•	•	•		•	35 12
Incandescent lamr	us on ha	nd.	•	•	•	•	•	•	•	•	37 50
Cash on hand		,	•	•	:	•	•	•	• •	•	1,338 87
Investments, .	•	•	•	•	•	•	•	•	• •	•	972 50
In Counciles, .	•	•	•	•	•	•	•	•	• •	•	312 00
Total assets, s	s per b	ooks	of th	e cor	npan	у,	•	:			\$48,529 83
				Liai	BILIT	rbs.					
Capital stock, .			_			_			_		<b>\$30,000 0</b> 0
Bonds issued	•	:	•	•	•.		•	•		•	13,000 00
Bonds issued, Depreciation fund,	•	:	:	•	•	•	•	•		•	2,800 00
Deprociation runu,	•	•	•	•	•	•	•	•	• •	•	2,800 00
Total liabilitie	s, as pe	r bo	oks of	the	comp	any.					845,900 00
Profit and loss bal								•		•	2,729 83
											<b>\$48,529 83</b>
		M	LANUP	ACTU	RING	Ac	COUN	T.	Dr		Cz.
Operating expense	s								\$6,49		~==
Income from sale				r.	:		-	-	4-,, -0.		\$8,140 92
Balance to profit a	nd loss	-=u			•	•		•	1,64	69	Antis on
									28,140	 ) 92	\$8,140 92

1897.7	PUBLIC	DOCUMENT -	No.	35

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	Pı	ROPIT	AND	Lo	88 A	LOCOU	NT.		Dr.		Ca.
Balance June 30, 1895,											\$2,829 67
Balance of manufacturing	acc	ount,									1,641 69
Interest received, .											70 00
Interest paid,									8561	58	
Dividends declared, .									750	00	
Depreciation fund									500	00	
Depreciation fund, . Balance June 30, 1896,									2,729	83	
, .								-	4,541	36	84,541 36
•		-						·			•
COTTAGE CITY	r G	AS A	ND	EL	ECI	RIC	LIG	HT	COM	[PA]	IY.
			A	88 E	TB.						
Real estate (gas),				• ,	•.	•	•	•	•	•	\$2,700 00
Machinery and manufact	urin			es (į	gas)		•	•	•	•	8,331 96
Street mains (gas), .	•	•	•	•	•	•	•	•	•	•	10,000 00
Meters (gas),	•	•	•	•	•	•	•	٠	•	•	1,500 00
Due for gas,	•	•	•	•	•	•	•	٠	•	•	99 20
Gas coal on hand, .	•	•	•	•	•	•	•	•	•	•	102 50
Enrichers on hand, .		•	•	•	•	•	•	•	•	•	52 50
Other gas materials on he	and,	•		•	•		•	•	•	•	358 90
Stoves on hand, .	•	•	•	•	•	•	•	•	•	•	225 38
Gas fixtures on hand,		•	•		•			•	•	•	231 31
Real estate (electric),	•			•	•	•	•	•		•	1,500 00
Steam plant (electric),	•	•	• '	•	•	•	•	•			2,400 00
Electric plant,			•		•	•	•		•	•	2,200 00
Electric lines,						•	•			•	1,080 42
Arc lamps,											2,000 00
Carbons on hand, .										•	9 75
Oil and waste on hand,							•				38 75
Other electric materials of	n he	ınd,									57 37
Sundry accounts due the	com	pany	<b>,</b> .								170 54
Office furniture, .		•	•								88 50
Cash on hand,				•	•						604 88
Total assets, as per l	ook	s of t	he co	mpe	ny,						<b>\$33,746</b> 96
			_								
Capital stock,			LIA	BIL	ITIB	<b>J.</b>	_				<b>825,000 00</b>
Unpaid bills,	•	•		•	-	-	•	•	•	•	86 44
Depreciation fund,				•	•		•	•	•		8,360 <b>2</b> 2
Total liabilities, as p	er bo	oks	of the	cor	n pa:	ıy					\$33,446 66
Profit and loss balance,					•	•					300 <b>3</b> 0
											\$33,746 96
	1	JANU	FACT	URI	NG .	Acco	CNT.		Dr		Ca.
	as,				_	_	_		<b>\$3,7</b> 1		
	lectr	ic.	•		•	•	•		1,93		
Income from sale of gas,		٠٠,	•	:	•	•	•		-,00		\$3,858 71
other source		one)	•	•	•	•	•				168 49
sale of elec			and v	va.	AT.	•	•				2,180 00
	•	gas,	-uu }	-U 11	, .	•	•		21	5 86	2,100 00
Balance to profit and los	18, }	elect	ric.	•	•	•	•			609	
	•	0.006	,	•	•		•	-			
									<b>\$</b> 6,20	7 20	<b>\$</b> 6,207 <b>20</b>

xxxiv	GAS	AND	ELE	CTF	IC	LI	GHT.	[Jan.
		Profi	T AND L	088 A	ccou	NT.		
D-1 7 0	A 100F						Dr.	Car.
Balance June 3 Balance of gas				•	•	•		\$1,623 15 315 86
Balance of elect					•	•		246 09
Depreciation,				:	÷	:	<b>82</b> 61 65	230 00
Depreciation fu	nd, .				•	•	1,623 15	
Balance June 3	0, 1896,						300 30	
							90 105 10	00 105 10
							<b>\$2,</b> 185 10	<b>\$2,185</b> 10
		_						
	DA	NVERS	GAS L	IGHT	COL	(PA	٧Y.	
			Aası	BT8.				
Real estate,								<b>\$3,000</b> 00
Machinery and		uring app	oliances,	•	•			7,902 36
Street mains,				•	•	•		10,000 00
Meters, .	• •	• •		•	•	•	• • •	847 91
Due for gas,		• • •	• •	•	•	•	• • •	987 50
Coal on hand, Coke on hand,		• •	• •	•	•	•		1,460 22 31 35
Tar on hand.			• •	•	•	•		178 75
Enrichers on h		: :	: :	•		:		100 91
Cash on hand,								74 91
Total asset	e as nor h		ha comne	<b>.</b> 171 17				<b>8</b> 24,583 91
I Cuat appea	s, as por o	OURS OI S	по сощр	ы,	•	•	• • •	<b>⊕22,00</b> 0 91
			LIABIL	ITIES.				
Capital stock,								<b>220,000 00</b>
Unpaid bills,			: :	•	•	•		284 34
-				•	•	•	• • •	
Total liabil	ities, as pe	er books	of <b>the co</b> i	mp <b>a</b> nj	7,	•		\$20,284 34
Profit and loss	balance,			•	•	•	• • •	4,299 57
								\$24,583 91
		MANI	PACTURI	WG A	MITAN	·		• •
			- 401044		,0001	•••	Dr.	Ca.
Operating expe			• •	•	•	•	<b>\$5,401</b> 70	
Income from sa				•	•	•		\$6,623 43
	siduals, ther source		• •	•	•	•		253 37 16 00
Balance to prof		-		•	•	•	1,491 10	10 00
Ediano to Pro-		, .	•	•	•	•		
							<b>\$</b> 6,892 <b>8</b> 0	<b>\$6,892 80</b>
		Propi	r and L	088 A	CCOU	NT.	_	_
Balance June 3	190A						Dr.	Cz.
Balance of man		e account		:	:	•		\$3,688 85 1,491 10
Interest receive			•	:				2 31
Sale of fixtures	,							17 31
Dividends decla	ıred, .						[\$500 00	
Depreciation,	• •				•	•	400 00	
Balance June 3	0, 1896,	• •		•	•	•	4,299 57	

\$5,199 57

\$5,199 57

# DEDHAM ELECTRIC COMPANY.

Real estate,   \$14,864	3 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	76 78 97 98 97 98 97 99 99 16 75
Steam plant,       16,198         Electric plant,       13,251         Riectric lines,       62,553         Meters,       2,312         Transformers,       6,844         Arc lamps,       5,498         Due for light and power,       2,888         Fuel on hand,       321         Carbons on hand,       35         Oil and waste on hand,       14         Incandescent lamps on hand,       629         Globes on hand,       30         Other materials on hand,       147         Wiring account,       189         Horses, wagons, etc.,       646         Sundry accounts due the company,       444         Office furniture,       16         Cash on hand,       1,620	3 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	76 78 97 98 97 98 97 99 99 16 75
Steam plant,       16,198         Electric plant,       13,251         Riectric lines,       62,553         Meters,       2,312         Transformers,       6,844         Arc lamps,       5,498         Due for light and power,       2,888         Fuel on hand,       321         Carbons on hand,       35         Oil and waste on hand,       14         Incandescent lamps on hand,       629         Globes on hand,       30         Other materials on hand,       147         Wiring account,       189         Horses, wagons, etc.,       646         Sundry accounts due the company,       444         Office furniture,       16         Cash on hand,       1,620	3 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	76 78 97 98 97 98 97 99 99 16 75
Electric plant,       13,251         Blectric lines,       62,553         Meters,       2,312         Transformers,       6,844         Arc lamps,       5,498         Due for light and power,       2,888         Fuel on hand,       321         Carbons on hand,       14         Incandescent lamps on hand,       629         Globes on hand,       30         Other materials on hand,       147         Wiring account,       189         Horses, wagons, etc.,       646         Sundry accounts due the company,       444         Office furniture,       16         Cash on hand,       1,620	7 9 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9	78 97 38 37 37 11 50 99 16 75
Riectric lines,       62,563         Meters,       2,312         Transformers,       6,844         Arc lamps,       5,498         Due for light and power,       2,888         Fuel on hand,       321         Carbons on hand,       35         Oil and waste on hand,       14         Incandescent lamps on hand,       629         Globes on hand,       30         Other materials on hand,       147         Wiring account,       189         Horses, wagons, etc.,       646         Sundry accounts due the company,       444         Office furniture,       16         Cash on hand,       1,520	9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	97 38 37 57 11 50 99 16 75
Meters,       2,312         Transformers,       6,844         Arc lamps,       5,498         Due for light and power,       2,888         Fuel on hand,       321         Carbons on hand,       35         Oil and waste on hand,       14         Incandescent lamps on hand,       629         Globes on hand,       30         Other materials on hand,       147         Wiring account,       189         Horses, wagons, etc.,       646         Sundry accounts due the company,       444         Office furniture,       16         Cash on hand,       1,520	8 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	38 37 37 11 50 00 99 16 75
Transformers,       6,844         Arc lamps,       5,498         Due for light and power,       2,888         Fuel on hand,       321         Carbons on hand,       14         Carbons on hand,       629         Globes on hand,       30         Other materials on hand,       147         Wiring account,       189         Horses, wagons, etc.,       646         Sundry accounts due the company,       444         Office furniture,       16         Cash on hand,       1,520	5 6 5 1 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6	37 37 11 50 99 16 75
Arc lamps,	5 5 0 1 5 0 1 7 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	57 11 50 50 99 16 75
Due for light and power,       2,888         Fuel on hand,       321         Carbons on hand,       35         Oil and waste on hand,       14         Incandescent lamps on hand,       629         Globes on hand,       30         Other materials on hand,       147         Wiring account,       189         Horses, wagons, etc.,       646         Sundry accounts due the company,       444         Office furniture,       16         Cash on hand,       1,520	1 5 0 1 5 0 1 7 8 1 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 50 00 09 16 75
Carbons on hand,       35         Oil and waste on hand,       14         Incandescent lamps on hand,       629         Globes on hand,       30         Other materials on hand,       147         Wiring account,       189         Horses, wagons, etc.,       646         Sundry accounts due the company,       444         Office furniture,       16         Cash on hand,       1,520	0 9 1 7 8	00 99 16 75
Oil and waste on hand,       14         Incandescent lamps on hand,       629         Globes on hand,       30         Other materials on hand,       147         Wiring account,       189         Horses, wagons, etc.,       646         Sundry accounts due the company,       444         Office furniture,       16         Cash on hand,       1,520	9 1 7 8 0	99 16 75
Incandescent lamps on hand,	) 1 ) 7   8	16
Globes on hand,	8	75
Globes on hand,	8	
Other materials on hand,	0	12
Horses, wagons, etc.,		_
Sundry accounts due the company,		Ю
Office furniture,	8	0
Office furniture,	2	28
	0	Ю
Makes receive his	0	ð
	5	4
Investments,		
Insurance and interest,	1	3
Total assets, as per books of the company,	1.	_
Toma associa, as per books of the company,	•	•
Liabilities.		
Capital stock,	0	0
Notes payable	7	8
Unpaid bilis,	0	1
Interest due but not neid 507		
Total liabilities, as per books of the company,	-	-
Total liabilities, as per books of the company,		
Profit and loss balance,	0.	_
	1	4
<b>\$138,900</b>		
MANUFACTURINO ACCOUNT.		
MANUFACTURINO ACCOUNT.  DR. Cr.		
MANUFACTURINO ACCOUNT.  DR. CR.  Operating expenses,	70	<b>n</b>
MANUFACTURING ACCOUNT.  DR. CR.  Operating expenses,		
MANUFACTURING ACCOUNT.         DR.         CR.           Operating expenses,		
MANUFACTURINO ACCOUNT.  DE. CR.  Operating expenses,	00	0
MANUFACTURING ACCOUNT.         DR.         CR.           Operating expenses,	00	0
MANUFACTURINO ACCOUNT.  DE. CR.  Operating expenses,	00	0
MANUFACTURINO ACCOUNT.  DR. CR.  Operating expenses,	70	0 0
MANUFACTURINO ACCOUNT.   DE.   CR.	70	0
MANUFACTURINO ACCOUNT.   DE.   CR.	70	0
MANUFACTURINO ACCOUNT.  DE. CR.  Operating expenses,	70	0
MANUFACTURING ACCOUNT.   DE.   CR.	70	0
MANUFACTURINO ACCOUNT.   DR.   CR.	70	0
MANUFACTURING ACCOUNT.   DE.   CR.	70	0

### DEDHAM AND HYDE PARK GAS AND ELECTRIC LIGHT COMPANY.

DEDILIM IMID II		111011	021			LIUL	30126		1011	• `	)OM1 1411 2 ·
			1	Asse	T8.						
Real estate,	•										<b>\$7,463</b> 18
Machinery and manuf	facturin	g app	liano	œs,							11,267 48
Street mains,	•	•					•				24,488 82
Meters,				•							2,351 38
Due for gas,	•	•	•							•	1,445 25
Gas coal on hand, .		•					•		•		142 10
Due for gas, Gas coal on hand, Coke on hand,	•	•	•	•					•	•	95 60
Taron nand,	•	•		•	•	•	•		•	•	517 00
Stoves and fixtures or	ı b <b>a</b> nd,		•		•		•	•	•	•	1,198 50
Horses, wagons, etc.,		•	•	•	•	•	•	•	•	•	317 09
Office furniture, .		•	•	•	•		•	•	•	•	152 55
Cash on hand,		•	•			•	•				621 50
Investments,	•	•	•	•	•	•	•	•	•	•	4,600 00
Total assets, as p	er book	s of t	he co	ompa	ny,						<b>\$54,660 45</b>
Profit and loss balance	ю, .	•		•	•	•	•		•	•	56,644 26
											\$111,304 71
			Lı	ABIL	TIES						
Capital stock,											\$100,000 00
Bonds issued,					•						8,500 00
											2,000 00
		:									581 21
Deposits,					٠.	•					62 00
Interest due but not p	paid,	•	•	·		•		•		•	161 50
Total liabilities,	s per b	ooks	of th	e coi	npan	y,	•	•	•	•	\$111,304 71
	:	Manu	FAC	TURI	NG A	ccou	INT.				
									DR.		Ca.
Operating expenses,		•	•	•	•	•	•	\$1:	2,446	29	
Income from sale of g		•	•	•	•	•	•				\$14,511 27
residual		•	•	•	•	•	•				1,474 95
other so		•	•	•	•	•	•				14 00
Balance to profit and	loss,	•	•	•	•	•	•		3,553	93	
								\$10	3 <b>,00</b> 0	22	\$16,000 22
	1	Profi	T Al	ND L	088 .	Acco	UNT.				
Balance June 30, 189	К.							95	Dæ. 3,087	35	Car.
Balance of manufact		•	•	•	•	•	•	ψυ	,,007	~	83,553 93
Rents.			•	•	•	•	•				84 00
		•	•	•	•	•	•		656	01	02 00
		:	•	•	•	•	•		1,538		
Depreciation, Balance June 30, 189		•	•	•	•	•	•		-,000	w	56,644 26
Datauce suite ou, 100	·, ·	•	•	•	•	•	•	_			
								<b>\$</b> 6	0, <b>2</b> 82	19	<b>\$60,282</b> 19

#### DORCHESTER GAS LIGHT COMPANY.

				A	88ET	8.							
Real estate, machine	ry, m	anu	factur	ing a	pplia	nce	s and	stree	t main	18,		\$657,160	98
Meters,	•				•							84,545	35
												26,652	
Gas on hand, .												129	96
Purifying materials	on ha	ınd.										298	86
Other materials on												7,848	
												62,556	
Gas fixtures on han	đ.				•							144	-
Horses, wagons, etc				•								185	.00
Sundry accounts du												2,429	26
Cash on hand, .												10,967	
Work in process.												1,341	03
•			٠			_	-	-	-	-	-		
Total assets, as	per b	ooks	of th	16 CO1	npar	y,	•	•	•	•	•	\$804,260	62
	•			Lia	RILI'	ri er							
Capital stock, .						•	•					\$472,000	Δ0
Notes payable,		•	•	:	•	•	•	:	:	•	•	9,000	
Unpaid bills		•	•	•	•	•	•	•	•	•	•	41,736	
Deposits,	:	:	•	•	•	•	•	•	•	•	•	1,584	
Premium account.	-		:	:	:	:	•	•	•	•	•	18,088	
Amounts due from							hove	•	•	•	•	26,629	
Amounts day nom	eno co	mpe	шу, п	OF 14	uuu	u 4	,	•	•	•	•		<u></u>
Total liabilities	, as p	er bo	oks (	of the	con	рап	ıy,		•			\$569,039	23
Profit and loss bala	nce,							• .				235,221	39
												\$804,260	
			ANTI	PACTI	IRIN	a A	CCOUN	т.				\$00±,200	02
		_						•••	_	R.		Cr.	
Operating expenses			•	•		•	•	•	<b>\$</b> 118,	467	89		
Income from sale o				•	•.		•					\$157,775	82
Balance to profit an	id los	8,	•		•	•	•	•	39,	307	93		
									\$157.	775	99	\$157,775	- 82
		ъ	UA <b>B17</b>		. [_	ea /	Lecou:	VT	<b>4</b> 101,		02	<b>4</b> 101,110	02
		•	AUFII	Anı	, 130	00 1	LCCOL.	и	r	B.		CR.	
Balance June 30, 18	395,				•							\$195,981	. 40
Balance of manufa	cturin	g ac	coun	t,								39,307	93
Rents,		•										238	70
Rents, Interest paid, .					•				\$	306	64		
Balance June 30, 18	896,								235,	221	39		
	•								2005		_	A005 F00	
			_						₹235,	<b>026</b>	<b>U</b> 3	\$235,528	) U3
							_						
	_												
	E	AS.	r. RO	STO	N G	AS	COM	PAN	YY.				

## Assets.

Real estate,								•		\$74,455 43	ţ
Machinery and	mai	ufac	turic	g ap	pliance	8,			•	72,931 11	l
Street mains,										65,661 7	L
Meters,										11,553 20	)
Due for gas,										5,815 19	9
Coal on hand,										3,206 24	£
Coke on hand,											)

xxxviii	GAS						IC	LI	GH	<b>T.</b>		[Jan.
Tar on hand, Purifying mater Other materials Stoves on hand, Fixtures on han Horses, wagons		•								_		<b>\$</b> 2,448 00
Parifying mater	iels on he	nd	•	•	•	•	•	•	•	•	•	150 00
Other meterials	on hand	шч,	•	•	•	•	•	•	•	•	•	1,739 35
Stower on hand	on nand,	•	•	•	•	•	•	•	•	•	•	152 25
Pirture on her		•	•	•	•	•	•	•	•	•	•	828 57
Torses was some	ata .	•	•	•	•	•	•	•	•	•	•	538 50
					•	•	•	•	•	•	•	4,826 88
Sundry account Cash on hand, Investments,	s ane me	com	any,	)	•	•	•	•	•	•	•	
Cash on hand,	• •	•	•	•	•		•	•	•	•	•	15,892 78
						•	•	•	•	•	•	12,550 00
Total assets	s, as per o	OOKS	or u	16 CO	mpa	uy,	•	•	•	•	•	<b>\$</b> 274,119 21
				LIA	BILI	TIBS.						
Capital stock,												<b>\$220,000 00</b>
Unpaid bills,												2,500 00
Deposits, .												952 87
Total liabil	itles, as p	er bo	oks c	of the	COL	pany	, -	•	•	•	•	\$223,452 87
Profit and loss l	balance,	•	•	•	•	•	•	•	•	•	•	50,666 34
		34										\$274,119 21
		M	ANU;	PACT	URIE	o Ac	COU	NT.		Dr.		Ca.
Operating exper	nses									2,636	27	-
Income from as	le of gas.				-	-			•	,		<b>268,564 57</b>
Operating experience income from sa	aidnala.						-					10,067 48
	her sourc			•		•		•				191 91
Balance to prof			:	:	:	•	•	•	96	,187	AQ.	10. 01
Dalance to prod	1 MILL 108	7,	•	•	•	•	•	•			_	
		_							\$78	3,823	96	<b>\$</b> 78,823 96
		P	COPIT	· AMI	n I.a	aa A	CCOTT	NT.				
		P	OPIT	' ANI	D Lo	88 A	CCOU	NT.		Dr.		Cr.
Balance June 3					b Lo	. A	ccou	NT.		Dr.		Cr. \$51,338 11
										Dr.		
Balance of man	ufacturin	g acc	oant							Dr.		<b>\$</b> 51,338 11
Balance of man Interest receive	ufacturin d,	ng acc	ount	, .			·			Dr.		\$51,338 11 26,187 69
Balance of man Interest receive Jobbing accoun	ufacturin d, t,	ng acc	ount	· ·	•	•	·			Dr.		\$51,338 11 26,187 69 1,415 23
Balance of man Interest receive Jobbing accoun	ufacturin d, t,	ng acc	ount	· ·	•	•					56	\$51,338 11 26,187 69 1,415 23 418 30
Balance of man Interest receive Jobbing accoun	ufacturin d, t,	ng acc	ount	· ·	•	•	ccou	•		<b>\$2</b> 3		\$51,338 11 26,187 69 1,415 23 418 30
Balance of man Interest receive Jobbing accoun	ufacturin d, t,	ng acc	ount	· ·	•	•	·		2	<b>\$2</b> 3	00	\$51,338 11 26,187 69 1,415 23 418 30
Balance of man Interest receive Jobbing accoun	ufacturin d, t,	ng acc	ount	· ·	•		ccov	•	2	<b>\$2</b> 3 2,000 5,560	00 71	\$51,338 11 26,187 69 1,415 23 418 30
Balance of man Interest receive Jobbing accoun	ufacturin d, t,	ng acc	ount	· ·	•	•	·	•	2	\$23 2,000 5,560 1,137	00 71 12	\$51,338 11 26,187 69 1,415 23 418 30
Balance of man Interest receive	ufacturin d, t,	ng acc	ount	· ·	•		·	•	2:	\$23 2,000 5,560 1,137 0,666	00 71 12 34	\$51,338 11 26,187 69 1,415 23 418 30 23 40
Balance of man Interest receive Jobbing accoun	ufacturin d, t,	ng acc	ount	· ·	•			•	2:	\$23 2,000 5,560 1,137	00 71 12 34	\$51,338 11 26,187 69 1,415 23 418 30 23 40
Balance of man Interest receive Jobbing accoun	urfacturin d, t, income,  ared, narged off  0, 1896,	ag acc	• ount					•	5/ \$7/	\$23 2,000 5,560 1,137 0,666	00 71 12 34	\$51,338 11 26,187 69 1,415 23 418 30 23 40
Balance of man Interest receive Jobbing accoun	urfacturin d, t, income,  ared, narged off  0, 1896,	ag acc	• ount	· · · · · · · · · · · · · · · · · · ·				•	5/ \$7/	\$23 2,000 5,560 1,137 0,666	00 71 12 34	\$51,338 11 26,187 69 1,415 23 418 30 23 40
Balance of man Interest received Jobbing account Other items of interest paid, Dividends declar Construction of Depreciation, Balance June 3	urfacturind, tt, income, ared, ared, off. 0, 1896,	ag acc		i.		GAS	COM	: : : : :	5/ \$7/	\$23 2,000 5,560 1,137 0,666 9,387	00 71 12 34 73	\$51,338 11 26,187 69 1,415 23 418 30 28 40
Balance of man Interest receive Jobbing accoun Other items of i Interest paid, Dividends decla Construction of Depreciation, Balance June 3	urfacturind, t, income, ared, ared, 0, 1896,	ag acc	· · · · · · · · · · · · · · · · · · ·	LPTC		GAS	COM	: : : : :	5/ \$7/	\$23 2,000 5,560 1,137 0,666 9,387	00 71 12 34 73	\$51,338 11 26,187 69 1,415 23 418 30 28 40 \$79,387 73
Balance of man Interest receive Jobbing accoun Other items of i Interest paid, Dividends decle Construction of Depreciation, Balance June 3  Real estate (ga Machinery and	unfacturind, t, income, ared, ared, 0, 1896,	ASTI	· · · · · · · · · · · · · · · · · · ·	LPTC		GAS	COM	: : : : :	5/ \$7/	\$23 2,000 5,560 1,137 0,666 9,387	00 71 12 34 73	\$51,338 11 26,187 69 1,415 23 418 30 28 40 \$79,387 73
Balance of man Interest receive Jobbing accoun Other items of i Interest paid, Dividends decla Construction of Depreciation, Balance June 3  Real estate (ga Machinery and Street mains (ga	unfacturind, t, income, ared, ared, arged off t manufacturing manufacturing,	ag acc	ount	LPTC		GAS	COM	: : : : :	5/ \$7/	\$23 2,000 5,560 1,137 0,666 9,387	00 71 12 34 73	\$51,338 11 26,187 69 1,415 23 418 30 28 40 \$79,387 73 \$9,500 00 10,500 00 8,000 00
Balance of man Interest receive Jobbing accoun Other items of i Interest paid, Dividends decis Construction of Depreciation, Balance June 3  Real estate (ga Machinery and Street mains (g Meters (gas),	unfacturind, t, income, ared, ared, 0, 1896,  E	ASTI	oount	IPTO		GAS ets.	COM	: : : : : : : :	2: 5/ \$7: IX.	\$23 2,000 5,560 1,137 0,666 -	00 71 12 34 78	\$51,338 11 26,187 69 1,415 23 418 30 28 40 \$79,387 73 \$9,500 00 10,500 00 8,000 00 500 00
Balance of man Interest receive Jobbing accoun Other items of i Interest paid, Dividends deck Construction of Depreciation, Balance June 3  Real estate (ga Machinery and Street mains (ga Moters (gas), Due for gas,	unfacturind, t, income, ared, ared, 0, 1896,  E	ASTI	oount	LPTC		GAS	COM	: : : : :	22 5 57 \$71 	\$23 2,000 5,560 1,137 0,666 9,387	00 71 12 34 73	\$51,338 11 26,187 69 1,415 23 418 30 28 40  \$79,387 73  \$9,500 00 10,500 00 8,000 00 500 00 652 23
Balance of man Interest receive Jobbing accoun Other items of i Interest paid, Dividends decla Construction et Depreciation, Balance June 3  Real estate (ga Machinery and Street mains (g Meters (gas), Due for gas, Gas coal on ha	unfacturind, t, income, ared, 10, 1896,  E  s), manufact (as), ind,	ASTI	ount	IPTO		GAS ets.	COM	: : : : : : : :	2: 5/ \$7: IX.	\$23 2,000 5,560 1,137 0,666 -	00 71 12 34 78	\$51,338 11 26,187 69 1,415 23 418 30 28 40  \$79,387 73  \$9,500 00 10,500 00 8,000 00 500 00 652 23 279 00
Balance of man Interest receive Jobbing accoun Other items of i Interest paid, Dividends deck Construction of Depreciation, Balance June 3  Real estate (ga Machinery and Street mains (g Moters (gas), Due for gas, Gas coal on ha Coke on hand,	unfacturind, t, income, ared, 10, 1896,  E  s), manufact (as), ind,	ASTI	oount	IPTO		GAS ets.	COM	: : : : : : : :	22 5 57 \$71 	\$23 2,000 5,560 1,137 0,666 -	00 71 12 34 78	\$51,338 11 26,187 69 1,415 23 418 30 28 40  \$79,387 73  \$9,500 00 10,500 00 8,000 00 500 00 632 23 279 00 18 00
Balance of man Interest receive Jobbing accoun Other items of i Interest paid, Dividends decla Construction of Depreciation, Balance June 3  Real estate (ga Machinery and Street mains (g Meters (gas), Due for gas, Gas coal on had, Tar on hand,	unfacturind, t, income, ared, targed off 0, 1896,  E  s), manufactariand,	ASTI	ount	IPTO		GAS gas),	COM		22 55 \$77	\$23 2,000 1,137 0,666 -	00 71 12 34 78	\$51,338 11 26,187 69 1,415 23 418 30 23 40  \$79,387 73  \$9,500 00 10,500 00 8,000 00 652 23 279 00 18 00 10 00
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Fuel on hand (					•	•	•	•	•	•	180 00
Carbons on han	olocaro),	: :	•			•	:	•	•	•	45 00
Oil and waste o	n hend	• •				•	•	•	•	•	25 00
Other electric n						•	•	•	•	•	25 00
Cash on hand,					:	:	:				981 88
Total assets	s, as per l	bo <b>oks</b> o	f the c	ompa	ny,	•			•		\$40,894 84
			La	BILIT	TIBS.						
Capital stock,				•	•						<b>\$30,000 00</b>
Notes payable,								•			5,000 00
									-		
Total liabil							•	•	•	•	\$35,000 00
Profit and loss	balance,	• •	•	•	•	•	•	•	•	•	5,89 <b>4 34</b>
											\$40,894 34
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On another a series	{g	as, .						8	6,030	19	
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Income from se	ale of gas.				•				-,		87,594 84
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	le of elec										2,187 52
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Balance to prof	it and los		ectric,		-				419		
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Balance of elect Interest paid, Dividends declar	manufact tric manu ared,	turiug a	eccount	t, . ount,	•	•	•	_	\$250 1,800	00 34	\$5,466 90 2,058 02 419 42
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Balance of elect Interest paid, Dividends declar	manufact tric manu ared, . 0, 1896,	turing a	eccounting acco	ount,	:	:	•	*	\$250 1,800 5,894 7,944	00 34 34	\$5,466 90 2,058 02 419 42 \$7,944 34
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Capital stock, Bonds issued, Unpaid bills, Deposits, Unpaid dividend Interest earned t											. 1	3,188,800 00	
Bonds issued, .											•	43.0.000.00	
Unpaid bills, .												4,154 00	
Deposits,												870 00	)
Unpaid dividend	8, .											55,804 00	)
Interest earned h	out not p	aid.										2,300 00	
Reserved funds.												2,044 33	
Unpaid bills, . Deposits, . Unpaid dividend Interest earned b Reserved funds, Amounts due fro	m the co	mpa	ny, i	ot i	nclud	led s	above,	•	•	•	•	<b>26,903</b> 71	
Total liabilit									_		- 5	3,750,876 04	
Profit and loss b												48,840 78	
		•	•	•	•	•		•	•	•	٠.	10,010 (0	
											•	3,799,716 82	ì
		M	ANU	PAC:	rurii	ng A	<b>1000</b> 0	NT.					
0										Dr.		CR.	
Operating expen	865, .	٠.	•	•	•	•	•	•	\$402	2,060	60		_
Income from sal	e of light	and	bom	er,	•	•	•	•				\$728,438 2	
oth	er sourc	<b>0</b> 6,	•	•	•	•	•	•				5,949 43	3
Balance to profit	and loss	3,	٠.	•	•	•	•	•	332	2,327	06		
									\$734	,387	66	<b>\$</b> 734,387 60	5
		Pı	יושה	- A N	n I.	188 A	Accou	MT.					
		•	AUF 1		-		20000			DE.		Ca.	
Balance June 30	, 1895,	•	•	•	•	•		•				<b>\$26,582</b> 2	2
Balance of manu	facturin	g acc	ount	, .		•	•					332,327 0	6
Interest received	, .						•					4,217 0	7
Renta.			_	_	•							2,096 8	0
Royalties and w	iring acc	ount,	•	•								7,999 6	3
Interest paid, Dividends declar									\$20	,570	00		
Dividends declar	red, .				•		•	•	216	,609	75		
Depreciation, .					•				27	,202	25		
Reserved fund,							•		60	0,000	00		
Reserved fund, Balance June 30	, 1896,				•				48	3,840	78		
											70	A272 030 T	-
			_						\$3/6	5,ZZZ	18	<b>\$</b> 373,222 7	0
EDISON E	LRCTR	ic i	T.T.TT	MIN	I A TI	NG	COM	PA1	44 C	1 TI	RRA	CKTON.	
DDIOON II	220110						0011				,,,,,	OIL I OIL.	
Deal action					A88E	TS.							
Real estate,	• •	•	•	•	•	•	٠.	•	•	•	•	\$53,274 3	
Steam plant,	• •	•	•	•	•	•	•	•	•	•	•	37,472 5	
Electric plant, Electric lines,	• •	•	•	•	•	•	•	•	•	•	•	40,150 7	
Electric lines,	• •	•	•	•	•	•	•	•	•	•	•	64,359 1	
Meters, .	• •	•	•	•	•	•	•	•	•	•	•	3,928 1	
Transformers an	d lamps	, .	•	•	•	•	•	•	•	•	•	6,863 0	
Electric lines, Meters, Transformers an Arc system, Patent rights, Due for light an	• •	•	•	•	•	•	•	•	•	•	•	57,992 7	
Patent rights,		•	•	•	•	•	•	•	•	•	•		
Due for light an Carbons on hand Oil and waste on	d power,				•	•	•	•	•	•	•	10,969 6	
Carbons on hand	d, .			•	•		•		•			414 5	0
Oil and waste or	n hand,		•			•	•	•	•		•	74 77	ĩ
Incandescent las	mps on b	and,	•	•			•	•	•			323 0	
Incandescent las Other materials	on hand	, .	•	•	•	•	•	•	•	•	•	2,817 97	
M-4 1 1												000 49	4

1897.]	PUB	LIC	I. C	000	נטכ	ME	YT.	- N	o. 3	5.		;	xli
Horses, wagon	s. tools. e	tc						_				<b>\$</b> 9,034	48
Sundry accoun	ts due the	e com	DARI	7.	•							205	
Cash on hand.		_	_	_	_	_	_					82	
Interest, insura	nce and t	axes	prep	aid,					•				-
Total asset	s, as per	book	of	the c	omp	any,			•			\$309,507	21
				Lı	ABIL	ITIBS							
Capital stock,												<b>2</b> 100,000	00
Bonds issued,												100,000	
Notes payable,				•								67,500	
Unpaid bills,												2,913	
Interest due bu								•				1,000	
Depreciation fu	ınd, .	•										37,499	
Amounts due f								, •					
Total liabi	lities, as p	er bo	oks	of th	ne co	mpan	у,					\$309,507	21
						-	•						
		M	IANU	FAC:	ruri	NG A	ccou	NT.		Dz.		Cr.	
Operating expe	meaa								<b>\$</b> 42,			CR.	
Income from as						•	•	•	<b>422</b> ,	100	<i>5</i> 0	\$63,406	26
	ther source						•	•				58	
Balance to pro				•	•	•		•	21	081	07	00	70
Datatice to pro-	ne and ios	,	•	•	•	•	•	•					
		ъ	B077		. T	088 <i>A</i>		7.500	<b>\$</b> 63,	<b>4</b> 65	02	<b>\$</b> 63,465	02
					ע עו	U88 A	LCCO	JN1.	:	Dr.		Cr.	
Balance of man	nufacturii	ng ac	coun	t,	•	•	•	•				\$21,031	
Other items of				•	•	•	•	•				43	05
Interest paid,		•	•	•	•	•	•	•	<b>8</b> 9,				
Dividends decl			•	•	•	•	•	•		000			
Depreciation fu		•	•	•	•	•	•	•		540			
Other items,		•	•	•	•	•	•	•		444 —-	00		_
			_						<b>\$</b> 21,	074	12	\$21,074	12
EDISON E	LECTRI(	C IL	LUN	IIN/	TIN	1G C	OME	PANY	OF	P.	LL	RIVER	
					A88E	TS.							
Real estate,												\$35,000	00
Steam plant,												33,050	
Electric plant,						•		•				22,987	
Electric lines,												56,450	
Meters, .						•						3,499	
Patent rights,								•				9,000	
Due for light as								•				3,308	
Incandescent la												1,124	
Other materials	•	•				•						3,469	
Motors on hand												6,652	
Sundry account					•	•					•	4,476	
Cash on band,				•	:	•		•	•			6,174	
Total assets				he co	mna	n⊽.						\$185,194	

GAS	AND	ELECTRIC	LIGHT.

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			T.r	4 TO FF	ITI B8				
Capital stock,				v Bir					\$150,000 00
Notes payable,									15,000 00
Unpaid bills,									4,178 63
m 1 11 1 1									
Total liabi			or u	ie coi	mpan	ı <b>y</b> , .	•		\$169,178 63
Profit and loss	Dalance,		•	•	•	•	•		16,015 60
									\$185,194 23
		MANU	PAC:	TURI	NG A	ccon	NT.	Dr.	Ca.
Operating expe	msas		_	_		_	_	<b>8</b> 43,969 02	
Income from sa			rer.				•	<b>4</b> 20,000 02	<b>366,127 92</b>
	ther source				•	•			5,166 25
Balance to prof								27,325 15	3,333
		Propi	~ A 20	n Ta	-aa A	0005	73290	<b>\$</b> 71,294 17	<b>\$</b> 71,294 17
		I MUPI	LAN	<i>D</i> 14	J00 Z	LOCOL	MT.	Dr.	CR.
Balance June 3	0, 1895,			•					<b>\$3,665</b> 51
Balance of man	unfacturing	account	<b>,</b> .						27,325 15
Other items of	income,								10 00
Interest paid,					•			<b>\$73</b> 5 06	
Dividends decla	ared, .		•		•			11,250 00	
Wiring account	, .		•	•		•	•	3,000 00	
Wiring account Balance June 3	0, 1896,			•	•	•		16,015 60	
								\$31,000 66	\$31,000 66
		-						• •	•,
	n			~~D		10.11	m ~		
	FALL K	IVER	SLE	CIR	IC L	IGH	r cc	OMPANY.	
				Asse	T8.				
Real estate,		• •		•	•	•	•		<b>\$31,000 00</b>
Steam plant,				•	•	•	•		48,220 91
Electric plant,				•	•	•	•		54,092 34
Electric lines,		• •		•		•		• • •	69,761 64
Due for light at				•		•	•	• • •	6,992 12
Cash on hand,	• •	• •	•	•	•	•	•	• • •	9,022 53
Total asset	s, as per bo	ooks of t	he co	mpa	uy,	•			\$219,089 54
	_								
					ITI BS				
Capital stock,				•	•	•	•		• •
Unpaid bills,			•	•	•	•	•		3,627 85
Reserved fund,	• •	• •	•	•	•	•	•		6,000 00
Total liabil	ities, as pe	r books	of th	e cor	npan	y,	•		\$209,627 85
Profit and loss									
									2010.000.54
		Man	TPA (	TER	ING A	Acco	UNT.		\$219,089 54
								Dr.	Cz.
Operating expe				•	•	•	•	<b>\$</b> 62,211 92	
Income from sa				•	•	•	•		<b>\$</b> 84,285 <b>6</b> 3
Balance to prof	it and loss,	•	•	•	•	•	•	22,073 71	
								\$84,285 63	\$84,285 63
		Propi	T AN	D L	088 &	ccot	nt.		-
Dalamar Inn A	n 100#							Dr.	Car.
Balance June 3				٠	•	•	•		<b>23,387 98</b>
Balance of mar	_	account	• •	•	•	•	•	<b>016 000 00</b>	22,073 71
Dividends decla	•	• •	•	•	•	•	•	\$16,000 00	
Balance June 3	v, 1090,	• •	•	•	•	•	•	9,461 69	
								\$25,461 69	<b>\$25,46</b> 1 69

\$168,646 85 \$168,646 85

#### FALL RIVER GAS WORKS COMPANY.

#### A SERTS. Real estate. 2135,169 97 Machinery and manufacturing appliances. 73.825 97 Street mains, . . . 138,276 31 Meters. . . 28,746 48 Due for gas. 6,706 65 Coal on hand. . 5.754 83 Gas engines, . . 635 32 Tar on hand. Tar on hand, . . . . Enrichers on hand, . . . 2.001 75 1,580 21 Purifying materials on hand. . 159 07 Other materials on hand, tools, etc., 8.112 39 Stoves on hand, . . . . 2.104 87 Fixtures on hand. . . . 1.335 53 Sundry accounts due the company, . 3,195 58 Office furniture. . . . 434 21 Cash on hand. . 28,971 24 Investments. . . 2,510 62 Total assets, as per books of the company. . . . \$439,520 90 LIABILITIES. Capital stock, . **\$288,000 00** Unpaid bills. . 11.301 98 Deposits, . 488 50 Amounts due from the company, not included above. . 12 15 Total liabilities, as per books of the company, . #299,802 63 139,718 27 **8439.520 90** MANUFACTURING ACCOUNT. Dr. CR. Operating expenses, . **\$52,050 06** Income from sale of gas. . **\$101.837 89** residuals. . 224 92 other sources. 162 60 Balance to profit and loss, 50,175 35 \$102,225 41 \$102,225 41 PROFIT AND LOSS ACCOUNT. Dr. Cz. Balance June 30, 1895, . \$115,438 48 Balance of manufacturing account, . 50,175 35 1,074 00 Jobbing account, . 1,902 04 Other items of income. 56 98 Interest paid, . . **22** 22 Dividends declared, . 28.800 00 Depreciation, . . 126 36 Balance June 30, 1896, . 139,718 27

# FITCHBURG GAS AND ELECTRIC LIGHT COMPANY.

					<b>A.88</b>	ETS.							
Real estate (gas),												\$10,798 49	9
Machinery and man					286	(gas).						17,659 87	
Street mains (gas),												15,000 00	
Meters (gas),		•										5,000 00	
Due for gas,										-		849 92	
Due for gas, . Enrichers on hand,		•				-			•	•	•	500 00	
Stoves on hand.	•	•	•	:	•	-	•	•	•	•	•	228 13	
Stoves on hand, Real estate (electric Steam plant (electric	۸.	•	Ī	•	·	-	Ī	·	•	•	•	22,705 8	
Steem plant (electri	(c)	•		•	٠	•	•	•	•	•	•	9,083 60	
Plactric plant	ω,	•	•	•	•	•	•	•	•	•	•	36,603 8	
Electric plant, . Electric lines, .	•	•	:	•	•	•	•	•	•	•	•	27,824 30	
Meters (electric),	•		:	•	•	•	•	•	•	•	•	699 84	
Transformers	•	•	•	•	•	•	•	•	•	•	•	4,964 4	
Transformers, Arc lamps, Due for electric ligh	•	•	•	• .	•	•	•	•	•	•	•	•	
The for electric limb	•			•	•	•	•	•	•	•	•	10,672 00	
Due for electric light	-1-1	, pov	ver,	•	•	•	•	•	•	•	•	631 8	
Fuel on hand (elect					•	•	•	•	•	•	•	500 00	
Carbons on hand,			•	•	•	•	•	•	•	•	•	250 00	
Cash on hand, .	•	•	•	•	•	•	•	•	•	•	•	2,877 4	
Notes receivable,	•	•	•	•	•	•	•	•	•	•	•	198 46	3
Total assets, as	per t	ook	s of t	he co	mne	anv.		_	_		_	\$167,048 09	,
	F					,,	•	•	•	•	٠	<b>4</b> 101,010 0	
				_									
				LIA	BIL	ITIES.							
	•		•	•	•	•	•	•	•	•	•	\$150,000 00	
Notes payable, .	•	•	•	•	•	•	•	•	•	•	٠	16,000 00	
Deposits,	•	•	•	•	•	•	•	•	•	•	•	100 00	
Reserved fund,	•		•	•	•	•	•	•	•	•	•	948 09	)
Total liabilities,	98 P	ar by	volta.	of the		mpanı						\$167,048 09	
1000 1100 111100,	ao P		~	O1	. ~	, and beautiful	,	•	•	•	•	<b>\$101,010 05</b>	•
		N	LANU	PACT	URI	NG AC	COU	NT.		Dr.		Car	
	( @8	us.		_			_		<b>\$2</b> 5	,173	34	Ca.	
Operating expenses,	l el	actri	c.	-	•	-	-	·	-	.432			
Income from sale of				·	•		Ī	•	-	,		\$32,701 10	
residu		•		•	•	:	•	•				5,414 90	
sale of		· He l					•	•				42,462 00	
other a							•	•				238 10	
				•		•	•	•	19	,942	ee	230 10	
Balance to profit and	l loss,	}   80	us, aatul	. •	•	•	•	•		•			
		( 61	ectric	-,	•	•	•	•		,267	O-12		
									\$80	,816	10	\$80,816 10	
		P	ROPIT	L VI	L	088 AC	cou	NT.	-	_			
D-1 7 00 100										Dr.		Ca.	
Balance June 30, 189	•			•	•	•	•	•				\$125 18	
Balance of gas manu							•	•				12,942 66	
Balance of electric n					ınt,	•	•	•	_			10,267 84	
Interest paid,		•	•	•	•	•	•	•	-	862			
Dividends declared,		٠	•	•	•	•	٠	•		,000			
Depreciation fund,	•	•	•	•	٠	•	٠	•		948			
Depreciation, .	•	•	•	•	٠	•	•	•		,343			
Jobbing account,		•		•		•		•		56			
Other items, .	•	•	•	•	•	•	•	•		125	18		
									992	335 (	- ts	\$23,335 68	
									-	,		4	

	FRA	MIN	GH	AM I	ELE	CTR	IC C	юмі	PAN	Y.			
					Ass z	TS.							
Real estate						_		_				\$12,902	87
	-						·			•		24,877	
Steam plant, . Electric plant, .					:		•	•	•	•		41,494	
Electric lines, me	lers, tri	ง เกลร์ก	rmei			lam	DR.	-	•	•		53,052	
Wiring.							,	•		•		23,209	
Wiring, Franchise,			•		•	•	•	•		•		8,062	
Franchise, . Due for light and	DOWAL.		-					-				2,567	
Frel on hand.	po,	•	•	•	•	•	•	•	•	•	·		10
Fuel on hand, . Carbons on hand,	•	•	Ċ	·	•		•		:		·	16	
A11 1 .												36	-
Incandescent lam Globes on hand, Sundry accounts	ns on h	and.			-			-		-		135	• -
Globes on hand.		,											50
Sundry accounts	due the	com	DAN	7	Ċ				•			119	
Office furniture,							-					168	-
Cash on hand.	-		•	-	-							94	
Cash on hand, . Advanced insurar	ice and	Wat	er re	tes.	•	•	•	•	•	Ċ	Ċ	446	
124 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 122 - 1	100 <b>a</b> 10	******		,	•	•	•	•	•	•	٠		
Total assets,	as per l	ook	s of t	he co	mpa	ny,	•	•	•	,•	•	\$162,194	00
Capital stock, .				Lı	ABIL	ITIBS						ı <b>\$80,000</b>	110
Bonds issued	•	•	•	•	•	•	:	•	•	•	•	50,000	
Notes nevenie	•	•	•	•	:	•			•	•	•	2,065	
Bonds issued, . Notes payable, . Unpaid bills, . Interest due but n	•	•	•	•	:	•	:	•	•	•	:		56
Interest due but n	ot neid		•	•	•	•	:	•	•	•	•	20,240	00
Amounts due from	n the c	'', Amne	nv.	not is	nelná	la hai	hove	•	:	:	:		
Interest due but n Amounts due fron		Jui pe	,	1100 11	uciuc		JU 10,	•	•	•	٠	710	
Total liabilitie	es, as p	er bo	oks	of th	e cor	npan	у,					\$156,042	03
Profit and loss ba	lance,					•	• •					6,151	97
												\$162,194	
		_	_										
		D	IAN	PAC1	rurii	NG A	.C <b>00</b> T	NT.		Dr.		Cz.	
Operating expense	es								81	3,599	32	· ·	
Income from sale	of ligh	t and	i pov	ver.					•	-,		\$18,581	94
Balance to profit	and los	В,	•	•	•	•	•	•		4,982	62	<b>4</b> 10,001	••
									<b>\$</b> 1	8,581	94	\$18,581	94
		10			7		Σοοοτ						
		r	MUPI	T AN	שו עו	U88 Z	10001	NT.		Dr.		Cz.	
Balance June 30,	1895,											\$4,453	55
Balance of manuf							•					4,982	
Wiring account,												114	68
Interest paid									8	3,100	33		
Other items, .										298	55		
Other items, Balance June 30,	1896,		•							6,151	97		

**\$9,550** 85 **\$9,550** 85

#### FRAMINGHAM GAS FUEL AND POWER COMPANY.

#### ASSETS.

Real estate, \$23,345 71 Machinery and manufacturing appliances, \$23,747 48 Street mains, \$29,776 68 Meters, \$3,521 57 Due for gas, \$1,420 14 Coal on hand, \$733 46 Wood on hand, \$2 00 Tools on hand, \$2 00 Tools on hand, \$153 60 Other materials on hand, \$155 60 Other materials on hand, \$155 60 Other materials on hand, \$155 60 Other materials on hand, \$155 60 Other materials on hand, \$155 60 Other materials on hand, \$155 60 Other materials on hand, \$155 60 Other materials on hand, \$155 60 Other materials on hand, \$155 60 Other materials on hand, \$155 60 Other materials on hand, \$155 60 Other materials on hand, \$155 60 Other materials on hand, \$155 60 Other materials on hand, \$155 60 Other materials on hand, \$155 60 Other materials on hand, \$155 60 Other furniture, \$1,600 11,170 67 Office furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furniture, \$1,000 71 Other furnitur			_								
Street mains,   29,876 65	Real estate,			•							\$32,354 71
Street mains,   22,576 65	Machinery and manufacturing	g apr	lian	ces,	•						32,747 48
Coal on hand,   733 46	Street mains,										29,876 65
Coal on hand,   733 46	Meters,										3,521 57
Coal on hand,   733 46	Due for gas,										
Wood on hand,   2 00	Coal on hand,										•
Tools on hand,									-	-	
Purifying materials on hand,	•			-				Ī	Ĭ.	·	
Other materials on hand,	Purifying materials on hand.			-		·		•	•	•	
Stores and fixtures on hand,	Other materials on hand.	·	•	•		·	•	•	•	•	
Stores and fixtures on hand,	Johning materials on hand	•	•	•	•	•	•	•	•	•	
Horses, wagons, etc., 266 75 Sundry accounts due the company, 1,170 67 Office furniture, 1,069 71 Cash on hand, 17 78 Notes receivable, 40,000 00 Investments, stoves leased, 1,602 15  Total assets, as per books of the company, \$148,665 56 Profit and loss balance, 49,118 68  LIABILITIES.  Capital stock, 575,000 00 Bonds issued, 75,000 00 Notes payable, 23,332 32 Unpaid bills, 1,921 92 Interest due but not paid, 22,530 00  Total liabilities, as per books of the company, \$197,784 24  MANUPACTURING ACCOUNT.  Dr. Capital stock of the company, \$197,784 24  Propertion of the company, \$197,784 24  MANUPACTURING ACCOUNT.  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital stock of the company, \$197,784 24  Dr. Capital sto	Stoves and fixtures on hand	•			:	•	•	•	•	•	
1,170 67 Office furniture,			•	•	•	•	•	•	•	•	•
Office furniture, 1,069 71 Cash on hand, 177 Rotal on hand, 177 Notes receivable, 40,000 00 Investments, stoves leased, 1,602 15  Total assets, as per books of the company, 3148,665 56 Profit and loss balance, 49,118 68  LIABILITIES.  Capital stock, 575,000 00 Bonds issued, 75,000 00 Ronds issued, 75,000 00 Notes payable, 23,332 32 Unpaid bills, 1,921 32 Unpaid bills, 1,921 32 Interest due but not paid, 22,530 00  Total liabilities, as per books of the company, 3197,784 24  MANUFACTURING ACCOUNT.  Dr. Operating expenses, \$7,393 33 Income from sale of gas, \$7,270 01 other sources, \$7,393 33 Income from sale of gas, \$7,270 01 other sources, \$65 07  FROFIT AND LOSS ACCOUNT.  Dr. Dr. Ca. Balance June 30, 1895, \$44,164 84 Balance of manufacturing account, \$65 07 Interest, \$4,500 00 Depreciation, \$149 99 Jobbing account, \$238 78 Balance June 30, 1896, \$44,168 88			•	•	•	•	•	•	•	•	
Cash on hand,				•	•	•	•	•	•	•	•
Notes receivable,	Coch on hand		•	•	•	•	•	•	•	•	•
Investments, stoves leased,	Casn on nand,	•	•	•	•	•	•	•	•	•	
Total assets, as per books of the company, \$148,665 56 Profit and loss balance, 49,118 68	Notes receivable,	•				•	•	•	•	•	
Profit and loss balance,	Investments, stoves leased,	•	•	•	•	•	•	•	•	•	1,602 15
Profit and loss balance,											
Capital stock,   375,000 00							•	•	•	•	<b>\$148,665</b> 56
Liabilities	Profit and loss balance, .	•	•	•		•	•	•	•		49,118 68
Liabilities											
Capital stock,											\$197,784 24
Capital stock,			T.v.		rmr wa						
Bonds issued,			ш	rbiti	LTLES	•					
Unpaid bills,	Capital stock,					•					\$75,000 00
Unpaid bills,	Bonds issued,										75,000 00
Unpaid bills,	Notes payable,										23,332 32
Manufacturing Account.   Dr.   Ca.											1,921 92
Manufacturing Account.   Dr.   Ca.	Interest due but not paid,										•
MANUFACTURING ACCOUNT.  DR. CR.  Operating expenses,	- '										
MANUFACTURING ACCOUNT.  DR. CR.  Operating expenses,	Total liabilities, as per bo	oks o	of th	e cor	npan	٧.					2197,784 24
Operating expenses,						• •		-	-	-	<b>V</b> 101,101 11
Operating expenses,											
Operating expenses,	-										
Property and Loss Account:   Balance June 30, 1895,		MANU	PACT	TURN	NG A	CCOU	NT.		D=		~
The composition   State   St	Operating expenses	_		_		_	_	•		23	<b></b>
Other sources,			•	•	•		•	•	,,,,,,,	~	97 970 01
Balance to profit and loss,			•	•	•	•	•				
### PROPIT AND LOSS ACCOUNT.    Da.   Ca.	Release to profit and loss	•	•	•	•	•	•				
PROFIT AND LOSS ACCOUNT.  Dr. Cr.  Balance June 30, 1895,	Datance to pront and loss,	•	•	•	•	•	•				65 01
PROFIT AND LOSS ACCOUNT.  Dr. Cr.  Balance June 30, 1895,									7 900		A7 902 93
Balance June 30, 1895,								•	7,090	<i>5</i> 3	\$1,595 35
Balance June 30, 1895,	P	ROFI:	r an	D L	) 88C	Lecon	INT.				
Balance of manufacturing account,											Car.
Interest,				•	•		•	<b>\$</b> 4			
Depreciation,	Balance of manufacturing ac	count	, .						65	07	
Depreciation,	Interest,	•					•		4,500	00	
	Depreciation,				•				149	99	
	Jobbing account,								238	78	
	Balance June 30, 1896,										349,118 68
<b>\$49,118 68 \$49,118 68</b>	•									_	
								84	9,118	<b>6</b> 8	\$49,118 68

### FRANKLIN. (See Union Electric Light Company.)

### FRANKLIN ELECTRIC LIGHT COMPANY. (Trumores Polls )

					(Tu	ner'	s Fall	ls.)						
						A88	BTS.							
Electric plant,	, .		•						′ .				\$6,107	46
Electric lines,													2,600	
Transformers	, .												1,100	00
Arc lamps,													1,200	00
Cash on hand	, .		•						:	•			2,162	
Total asse	ts, a	s per	book	s of t	be c	omp	any,					•	\$13,169	76
					Li	ABIL	,ITIBS	3.						
Capital stock,	•	•	•	•	•	•	•	•		•		•	\$10,000	00-
Total liab	ilitle	<b>8, 8</b> 8 ]	per bo	oks (	of th	e co	m pan	y,					\$10,000	00
Profit and loss	bal	ance,					•	•					3,169	76
												•	\$13,169	78
				FANT	<b>W</b> A (**	PIT D T	ng A	COOT	INT.				<b>#19,109</b>	10
			_	ZZI U				.000	,,,,,,,	1	DB.		CR.	
Operating exp						•		•	•	<b>\$</b> 2,	770	36		
Income from s	ale (	of ligi	nt and	l pow	er,		•	•		•			<b>\$3,868</b>	93
Balance to pro	fit a	nd lo	38,	.•	•	•	٠	•	•	, 1,0	098	57		
										83,8	368	98	\$3,868	93
			Þ	יזפחפ	r an	m Ta	088 &	المون ا	The T	₩-,-			<b>4</b> -,	•
							000 2		UM 4 •	D	R.		CR.	
Balance June	30, 1	895,	•						•	•			<b>\$</b> 2,771	19
Balance of ma	nufa	cturii	ng acc	ount,	, .								1,098	57
Dividends decl Balance June 3	ared	, .		•						\$7	700	00		
Balance June 8	30, 18	896,	•	•	•	•	•	•	•	3,1	169	76		
				_						\$3,8	369	76	\$3,869	76
	a	A DT	MDD	121	DOT	חזמי		מנדר	001	PAN	7			
	G.	ARD	MER	E:L:	BUI	ILIC	, III	311	COM	FAN:				
Real estate,					1	Asse	T8.						-0.100	••
Steam plant,	•	•	•	•	•	•	•	•	•	•	•	•	\$8,100	
Electric plant,	•	•	•	•	•	•	•	•	•	•	•	•	14,938 9,141	
Electric lines,		•	•	•	•	•	•	•	•	•	•	•	14,310	
Meters	•	•	•	•	•	•	:	•	•	•	•	•	2.116	
Transformers	•	•	•	•	•	•	•	•	•	•	•	•	2,110	
Are lamns	•	•	•	•	•	•	:	•	•	•	•	•	2,656	
Due for light a	nd n	Ower	•	•	•	•	•	•	•	•	•	•	1,525	
Frei on hand	p	· "OL,	•	:	•	•	:	•	•	•	•	•	204	
Meters, Transformers, Arc lamps, Due for light a Fuel on hand, Carbons on har	nđ.	•	:	•	•	•	•	•	•	•	•	•	124	
Oil and waste	on be	ınd.	•		•	•	•	•	•		•	•	48	
Incandescent la	LTD DE	on h	and		•	•	•	•	•	•	•	•	162	
Globes on hand					•	•	•	•	•		•	•	9	
Other materials	-, Loni	hand.				:	-	•	•	•	•	•	530	
Other materials Sundry accoun	ts de	e the	com	oanv.								•	423	
				J	, -		-	•	•	-	-	•	100	

									_	
xlviii	GAS	AND	) <b>E</b>	LE	CTI	RIC	L	GHI	2.	[Jan.
Office furniture,										<b>\$38 92</b>
Cash on hand,										172 46
Investments,						•	•			370 10
Total assets	es ner h	ooks of	ha a	om ne	22					\$57,437 27
I Otal Mesolis	, as per D	OURB OI	.ue 0	omba	цу,	•	•		•	\$01,801 ZI
			L	ABIL	TIB8					
Capital stock,										\$30,000 00
Notes payable,										7,250 00
Unpaid bills,										539 30
Reserved fund,			•	•	•	•	•		•	15,000 00
Total liabili	ties, as pe	er books	of th	ne cor	npan	٧.				<b>8</b> 52,789 30
Profit and loss b										4,647 97
		-	•	-	-	-	-		_	
										<b>\$</b> 57 <b>,43</b> 7 27
		MANI	JPAC	TURII	rg A	CCOUN	T.			0-
Operating expen								\$12,5	98. 40	Ca.
Income from sal					•	•	•	Ψ12,U	20 10	\$17,104 95
	er source			•	•	•	•			89 64
Balance to profi				·	•	•	•	4.6	66 19	<b></b>
		•		-	-	-			94 59	017 104 50
		D		T.	4			<b>\$</b> 17,11	9% (D)	\$17,194 59
		Propi	TAR	OD LO	)88 A	CCOU	NT.	r	R.	Cz.
Balance June 30	, 1895,							_		85,213 85
Balance of man	ufacturing	z accoun	t, .							4,666 19
						•				25 00
Jobbing account	<b>,</b> .									77 <b>0</b> 2
Other items of i	ncome,			•						28 91
Interest paid, Dividends decla Depreciation,			•	•	•	•	•	-	74 13	
Dividends decla	red, .		•	•	•	•	•		00 00	
Depreciation,			•	•	•	•	•		64 04	
Other items, Balance June 30	• • •	• •	•	•	•	•	•		24 83	
Balance June 30	, 1896,	• •	•	•	•	•	•	4,6	47 97	
								\$10,0	10 97	\$10,010 97
		•				_				
G.	ARDNE	R GAS	FU:	EL A	ND	LIGE	IT (	COMPA	ANY.	
				A881	RTS.					
Real estate,										\$5,307 33
Machinery and										13,348 01
Street mains,										22,318 33
Meters, .										1,812 40
Due for gas,										1,597 48
Tar on hand,						•	•			90 00
Enrichers on ha	nd, .		•		•	•		•		357 53
Tools on hand,			•	•		•	•			243 99
Fixtures on han	•		•	•		•	•	•		858 94
Horses, wagons			•	•	•	•	•		•	275 00
Sundry account		compan	y,	•	•	•	•	•		530 53
Office furniture,			•	•	•	•	•	• •		40 75
Cash on hand,			•	•	•	•	•	•	•	218 96
Subscription acc	ount,	• •	•	•	•	•	•	•	•	2,650 00
Total assets	, as per b	ooks of	the c	ompa	ny,		•	•		\$49,649 24

			Lia	BILIT	ırs.						
Capital stock,											\$28,900
Notes payable											`. <u>-</u> '
Capital stock, Notes payable, Unpaid bills,											
Total liabilities, as Profit and loss balance,	ner h	ooka o	f tha								947 011
Profit and loss halance	ber o	U GAUU	r me	COLLI	herri	•	•	•	•	•	\$47,911 1,738
Tom and loss barageo,		•	•	•	•	•	•	•	•	•	
		Manu.		PT \$1 T 11/		200	. N.Tom				<b>\$49</b> ,649
	•	MANU	PAUL	OKING	J A	5000	MT.		DB.		Cz.
Operating expenses, .	•	•				•		<b>\$</b> 6,	678	27	
Operating expenses, . Income from sale of ga Balance to profit and lo	s, .	•	•	•	•	•	•				<b>\$</b> 7,795
Balance to profit and lo	88,	•	•	•	•	•	•	1,	122	11	
								87.	795	38	87,795
•	1	ROFIT	ANI	Los	8 A	CCOT	JNT.	• •			4 1 2 1
Palamas Turns 80 1908									DR	•	CR.
Balance June 30, 1895, Balance of manufacturi	!		•	•	•	•	•				\$712
lobbing eccount	ing ac	count,	•	•	•	•	•				1,122 788
Jobbing account,	•	•	•	•	•	•	•		885	Δ	/00
Balance June 30, 1896,	•	•	:		•	:	•	•	7 <b>8</b> 8		
balance sunc so, toso,	•	•	•	•	•	•	•				
		_						<b>\$</b> 2,	623	14	<b>\$</b> 2,623
											990'AXT
Real estate,	:	•	:	:	:	:	: •	:	:	:	\$38,041 33,372
Steam plant	:	:	:	· ·	· ·	:	: • :	:	:	:	
Steam plant,	:	•	· ·	:	:	•	: • :			•	33,372 36,062 30,605
Steam plant,	:	:	:	:	· · ·	:	: • :			•	38,372 36,062 30,605 5,000
Steam plant,  Electric plant,  Electric lines,  Patent rights,  Due for light and power	r, .				•		: •				38,372 36,062 30,605 5,000 4,211
Steam plant,  Slectric plant,  Slectric lines,  Patent rights,  Due for light and power	r, .	•				:					38,372 36,062 30,605 5,000 4,211 1,939
Steam plant, Electric plant, Electric lines, Patent rights, Oue for light and power	r, .	•				:	: *		•		38,372 36,062 30,605 5,000 4,211 1,939 154
Steam plant,  Slectric plant,  Slectric lines,  Patent rights,  Due for light and power	r, .	•									38,372 36,062 30,605 5,000 4,211 1,939 154 28
Steam plant,	r, .										38,372 36,062 30,605 5,000 4,211 1,939 154 28 386
Steam plant,	r, .								• • • • • • • • • • • • • • • • • • • •	•	38,372 36,062 30,605 5,000 4,211 1,939 154 28 386 75
Steam plant,	r, .										38,372 36,062 30,605 5,000 4,211 1,939 154 28 386 75
Steam plant,	r, . hand,			:							38,372 36,062 30,605 5,000 4,211 1,939 154 28 386 75 116 285
Steam plant,	hand		•	:							38,372 36,062 30,605 5,000 4,211 1,939 154 28 386 75
Steam plant,  Slectric plant,  Slectric lines,  Slectric lines,  Slectric lines,  Successive stand power  Fuel on hand,  Carbons on hand,  Oil and waste on hand,  neandescent lamps on  Slobes on hand,  Other materials on hand  lorses, wagons, etc.,  sundry accounts due th  Office furniture and too	hand,			:				•			38,372 36,062 30,605 5,000 4,211 1,939 154 28 386 75 116 285 1,233
steam plant,	hand, d, . he con								•	•	38,372 36,062 30,605 5,000 4,211 1,939 154 28 386 75 116 285 1,233 451
Electric plant,	hand, d, . he con			· · · · · mpany					•	•	38,372 36,062 30,605 5,000 4,211 1,939 154 28 386 75 116 285 1,233 451 470
Steam plant,  Slectric plant,  Slectric lines,  Patent rights,  Oue for light and power  Tuel on hand,  Sarbons on hand,  Slin and waste on hand,  neandescent lamps on  Hobes on hand,  Other materials on hand  forses, wagons, etc.,  undry accounts due th  Office furniture and too  cash on hand,  Total assets, as per	hand, d, ne con		· · · · · · · · · · · · · · · · · · ·						•	•	38,372 36,062 30,605 5,000 4,211 1,939 154 28 386 75 116 285 1,233 451 470
Steam plant,  Slectric plant,  Slectric lines,  Patent rights,  Patent rights,  Patent rights and power  Fuel on hand,  Sarbons on hand,  Dil and waste on hand,  neandescent lamps on  Blobes on hand,  Other materials on hand  Horses, wagons, etc.,  Sundry accounts due th  Office furniture and too  Cash on hand,  Total assets, as per	hand, d, ne con		· · · · · · · · · · · · · · · · · · ·	· · · · · mpany					•	•	38,372 36,062 30,605 5,000 4,211 1,939 154 28 386 75 116 285 1,233 451 470
Steam plant,  Slectric plant,  Slectric lines,  Patent rights,  Patent rights,  Patent rights and power  Fuel on hand,  Sarbons on hand,  Dil and waste on hand,  neandescent lamps on  Blobes on hand,  Other materials on hand  Horses, wagons, etc.,  Sundry accounts due th  Office furniture and too  Cash on hand,  Total assets, as per	hand, d, ne con		· · · · · · · · · · · · · · · · · · ·	· · · · · mpany					•	•	38,372 36,062 30,605 5,000 4,211 1,939 154 28 386 75 116 285 1,233 451 470 \$152,434
Steam plant,  Slectric plant,  Slectric lines,  Patent rights,  Oue for light and power  Tuel on hand,  Sarbons on hand,  It and waste on hand,  neandescent lamps on  Hobes on hand,  Other materials on hand  forses, wagons, etc.,  undry accounts due th  Office furniture and too  cash on hand,  Total assets, as per	hand, d, ne con		· · · · · · · · · · · · · · · · · · ·	· · · · · mpany					•	•	\$38,372 36,062 30,605 5,000 4,211 1,939 154 28 386 75 116 285 1,233 451 470 \$152,434
Steam plant, Steam plant, Stectric lines, Stectric lines, Stectric lines, Steam rights, Oue for light and power fuel on hand, Starbons on	hand d,	onpany,	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					•	•	\$38,372 36,062 30,605 5,000 4,211 1,939 154 28 386 75 116 285 1,233 451 470 \$152,434
Steam plant, Electric plant, Electric lines, Patent rights, Oue for light and power Fuel on hand, Carbons on hand, Oil and waste on hand, Incandescent lamps on Hobes on hand, Other materials on hand, Horses, wagons, etc., Sundry accounts due th Office furniture and too Cash on hand, Total assets, as per Capital stock, Sonds issued, Votes payable, Jupaid bills, Interest due but not pai	hand, d, book		LIAE	mpany							\$38,372 36,062 30,605 5,000 4,211 1,939 154 28 386 75 116 285 1,233 451 470 \$152,434 \$50,000 49,000 37,179 4,259 750
Steam plant, Electric plant, Electric lines, Patent rights, Oue for light and power Fuel on hand, Oli and waste on hand, Incandescent lamps on Blobes on hand, Other materials on hand Horses, wagons, etc., Sundry accounts due th Office furniture and too Cash on hand,	hand, d, book		LIAE	mpany							\$3,372 36,062 30,605 5,000 4,211 1,939 154 285 75 116 285 1,233 451 470 \$152,434 \$50,000 49,000 37,179 4,259

				•			
•	MANUI	ACTU	RING	ACCO	UNT.	Dz.	Cr.
Operating expenses,						\$18,379 02	
Income from sale of light a	nd pow	BF,					\$22,417 74
other sources	, .						175 00
Balance to profit and loss,						4,213 72	
						\$22,592 74	<b>\$22,592</b> 74
	PROFIT	AND	Tage	A ago	TINT.	φ <i>222,082</i> 13	<b>\$</b> 22,052   1
	1 10711	AND	12000	12000	UNI	Dr.	CR.
Balance June 30, 1895, .					•		\$14,623 22
Balance of manufacturing	account,			•	•		4,213 72
Rents,		•		•	•		200 00
Other items of income, .	•	•			•		254 00
Interest paid,	•	•		•	•	\$5,158 67	
Depreciation, Balance June 30, 1896, .	•	•		•	•	2,887 46	
Balance June 30, 1896, .	•	•		•	•	11,244 81	
						<b>8</b> 19,290 94	<b>8</b> 19,290 94
	_					<b>ψ</b> 10,200 01	<b>\$10,500</b> 0.
Grond	ESTER	GA	S LI	GHT	COMP	ANY.	
		Α	ASBTS.				
Real estate,	. •						\$44,000 00
Machinery and manufactur			es, str	eet ma	ins an	d meters, .	41,000 00
	•	•	•	•	•		4,659 33
Coal on hand,		•		•	•		2,022 88
Gas on hand, Tar on hand,	•	•		•	•		74 00
Tar on hand, Purifying materials on han		•		•	•		810 00
Purifying materials on han	d, .	•		•	•		150 00
Other materials on hand, .		•		•	•		350 00
Stoves on hand,	•	•		•	•		100 00 525 00
Fixtures on hand, Horses, wagons, etc., Sundry accounts due the cash on hand,	•	•	• •	•	•		300 00
Horses, wagons, etc.,		•		•	•		
Cash on hand	ошрапу	•		•	•		6,334 81 314 97
		•	•	•	•	• • •	936 39
	•	•	•	•	•		1,074 21
investments,	•	•	• •		•	• • •	1,0/7 21
Total assets, as per boo	oks of th	e con	npany	, .	•	·	\$102,151 59
1							
		Tax	BILITI				
Canital stock				~U.			A00 000 00
Capital stock,	•	•	•	• •	•		\$80,000 00
Notes payable,	•	•	•		•		5,000 00
Total liabilities, as per	books o	of the	comp	any,.			\$85,000 00
Profit and loss balance, .			• -		•		17,151 59
						•	\$102,151 59
	MANU	D A COT:	n D I WA	A 000	TIME		\$102,181 35
	MANU	PACI	DEING	Acco	CAI.	Da.	Ca.
Operating expenses,			•			\$23,801 03	
Income from sale of gas, .			•		•		\$32,930 19
residuals, .		•					4,951 83
other sources		•			•		6 80
Balance to profit and loss,	•	•	•		•	14,087 79	
						237,883 82	\$37,888 82
						T,	

				•						
	1	ROPIT	AND	Loss	3 Л	COOU	NT.	Dr.		CR.
Balance June 30, 1895,				•						\$16,452 24
Balance of manufactur		count.								14,087 79
Rents,										2,768 60
Jobbing account, .										745 12
Other items of income										39 89
Interest paid.				-			-	844	5 20	-
Interest paid,		_					-	9,60		
Construction charged		·	:	•	•	:	•	6,89		
Balance June 30, 1896,	· .	·	•	•	•	•	•	17,15		
Dalance valle oo, 1000,	•	•	•	•	•	•	•			
		_				_		\$34,09	8 64	<b>\$</b> 34,093 64
	GRAE	TON	ELE	CTR	ıc	COM	(PAN	ıΨ.		
			Α	68 B T 8	١.					
Steam plant,										<b>8</b> 882 74
Electric plant,	•	•	•	•	•	•	•	• •	•	2,800 00
Electric lines,	:	•	•	•	•	•	•	• •	•	9,624 40
37 - 4			•	•	•	•	•		•	442 50
			•	•	•	•	•		•	1,142 80
Transformers, .	•	•	•	•	•	•	•		•	•
Due for light and power Incandescent lamps on	ır,	•	•	•	•	•	•		•	777 30
Other make teleps on	nand,	, .		•	•	•	•		•	127 69
Other materials on har		•	•	•	•	•	•	• •	•	33 74
Cash on hand,	•	•	•	•	•	•	•		•	27 49
Total assets, as per	r book	s of th	e cor	npany	7,	•	•	• •	•	<b>\$15,858 66</b>
			Liai	BILITI	BS.					
Capital stock,										<b>\$10,00</b> 0 00
Notes payable,										2,720 00
Unpaid bills,	•	•								1,229 77
Total liabilities, as	per b	ooks o	tbe	comp	any	7,			•	\$13,949 77
Profit and loss balance	, .	•	•	•	•	•	•		•	1,908 89
										<b>\$</b> 15,868 66
	1	<b>LANUF</b>	AOTU	ring	A	CCOUN	T.	Dz.		Cr.
Operating expenses, .			_	_	_		_	82,602	40	C #4-
Income from sale of lig				:	•	•	•	<b>\$2,002</b>		<b>\$4,096</b> 55
Balance to profit and lo					•	•	•	1,494	. 15	<b>\$2,000</b> 00
Dalling to pront and it	,,,,	•	•	•	•	•	•			
								\$4,096	55	<b>\$4,096</b> 55
	P	ROPIT	AND	Loss	A	CCOUR	T.	_		_
Dalama T 60 1000								Dr.		Ca.
Balance June 30, 1895,		•	•	•	•	•	•			<b>\$474</b> 08
Balance of manufactur	ing ac	count,	•	•	•	•	•			1,494 15
Interest paid,	•	•	•	• •	•	•	•	\$59		
Balance June 30, 1896,	•	•	•	• •	•	•	•	1,908	89	
								\$1,968	23	<b>\$1,968 23</b>

### GREAT BARRINGTON ELECTRIC LIGHT COMPANY.

OLEAT	DAI	PIULIT	010		31773			IUILI	CO	DII.	774 1		
				1	A see	T8.							
Real estate, .												21,560	00
Steam plant, .	:	•	•	•	•	•	•	•	•	•	•	5,881	
Electric plant, .		:	:	•	•	·	•	•	•	•		16,078	
Electric lines, .			•	•	:		:	•	:	•	•	20,899	
Meters.	·	•		•	•	•	•	•	•	•	•	1,353	
Meters, Arc lamps, Due for light and p					•			-		-		•	00
Due for light and p	ower.		:		-	•	•		-	•	-	1,371	
Fuel on hand, .										-		54	
Oil and waste on he	and.		:								-		00
Incandescent lamp	s on b	and.								_	-	64	
Globes on hand,	•	•										12	
Other materials on	hand.											65	
Fixtures on hand,												217	50
Sundry accounts de	ae the	com	pany									88	00
Office furniture,			`. '									60	00
Cash on hand, .												45	80
Investments, .												1,155	06
•													
Total assets, as	s per l	books	of t	he co	mpa	ny.						848,992	73
,	•				•	• -						• ,	
				Lia	BILI	TIBS.							
Capital stock, .												\$23,800	00
												15,000	
Bonds issued, . Notes payable, .		:										6,719	
Unpaid bills							•					963	
Interest due but no	t paid										-	30	
Amounts due from	the c	, ompa	nv. r	not in	clud	ed at	ωve.			_		1,161	
			, , -				,			•	•		
Total liabilities	. as D	er bo	oks (	of th	e cor	npan	٧.					\$47,674	28
Profit and loss bals					•							1,318	
	,	-	-	•	•	-	-	-	-	-	-		
												<b>\$</b> 48,9 <b>9</b> 2	73
												<b>V</b> 10,000	••
		M	[ANU	PACT	URII	TG A	c <b>co</b> v	NT.					
•										DR.		Ca.	
Operating expenses					•	•	•	•	₩6,	,023	40		~
Income from sale o						•	•	•	_			\$8,399	77
Balance to profit ar	ad los	8,	•	•	•	•	•	•	Z,	,375	77		
													_
									<b>\$</b> 8,	399	22	\$8,399	72
		_			_								
		P	ROPIT	MA 1	D Lo	88 A	CCOT	INT.		Dr.		Ca.	
Balance June 30, 18	895.						_			814	70		
Balance of manufa	cturir		· conn	t.	•		:	:		<b>~-</b> ~	. •	\$2,375	77
				٠,	:	•	•		1.	042	62	4-10:0	••
Balance June 30, 18			•	•	•	•	•	•		318			
~uucc vanc 00, t	,	•	•	•	•	•	•	•					
									22	,375	77	\$2,375	77
									4-0	, •	••	A-10.0	••

### GREENFIELD ELECTRIC LIGHT AND POWER COMPANY.

OLLEN	FIELD	ELL	3011	10	LIG		AND	ro	** 1716	CC	MIL	MI.	
					Asse	ITS.						•	
Real estate,				_				_	_			\$4,000	00
G				·	•	•	•	•	-	•	•	10,030	
Electric plant.	: :	•	•		•	·	•	•	•	•	·	12,708	-
Electric lines.		•	•	•	·	•	•	Ċ	•	•	•	9,324	
Electric plant, Electric lines, Meters, Transformers,												2,854	
Transformers.												1,425	
Arc lamps.												3,380	
Arc lamps, Due for light at Fuel on hand, Carbons on har	nd power						-					1,908	
Fuel on hand.	-u po o.	•				-	-	-	-			261	
Carbons on har	nd								-			78	
Oil and waste of Incandescent la Other materials Sundry account Cash on hand,	n hand.											25	
Incandescent la	mps on l	hand.										196	
Other materials	on hand								-			692	
Sundry account	ts due the	в соп	nanv									213	
Cash on hand.		•						Ċ	•				
,	•	-	•	•	•	•	•	-	•	•	-		
Total asset	s, as per	book	s of ti	be (	compa	ny,	•		•		•	\$47,230	70
				L	IABIL	ITIB	8.						
Capital stock, Bonds issued,												\$30,000	00
Bonds issued,												10,000	00
Unpaid bills,												99	21
Depreciation fu	ınd, .											3,000	00
_													
Total liabil	ities, as j	per b	ooks c	of t	he con	npaı	ay,					\$43,099	21
Profit and loss	balance,				•						•	4,131	49
													_
												\$47,230	70
		_					_					•	
		1	MANU:	PAC	TURI	NG A	Accou	NT.	_			_	
O									-	) <u>R</u> .	61	Cr.	
Operating experience from sa	uses, .	•	, 4 nom	•	•	•	•	•	<b>\$</b> 10,	900	01	<b>614 089</b>	07
THEOME HOM 88	per sons	200 10 MIN	u pow	er,	•	:	•	•				\$14,053 182	
Balance to prof	her sour	сев,	•	•	:			•		077	90	102	V <b>1</b>
Datatios to bron	IF SHICE TOE	ю,	•	•	•	•	•	•	٥,	Z( (	30		
									\$14,	235	91	\$14,235	91
		P	ROPIT	· A	ND LO	88	Accou	NT.					
									1	R.		Cr.	
Balance June 3												\$4,270	30
Balance of man						•						3,277	30
Interest paid,		•							8	500	00		
Dividends decla Construction ch	red, .				•				1,	200	00		
Construction ch	arged of	ľ, .	•		•	•				716			
Depreciation fur	nd, .	•							1,	000	00		
Depreciation fur Balance June 30	), 1896,	•	•	•	•	•	•	•	4,	131	49		
									\$7,	 547	60	\$7,517	60

### GREENFIELD GAS LIGHT COMPANY.

	GIGI	31314	I III	0 02	10	DIG	11	COM	ANI	•		
				A	88E	TS.						
Real estate,												844,608 47
Change and a												4,572 10
Meters, Due for gas, Coal on hand, Coke on hand Tar on hand, Enrichers on I Purifying mat Other materia												2,000 94
Due for gas,												864 50
Coal on hand,						•		•				299 00
Coke on hand	,	•	•									<b>50 00</b>
Tar on hand,				•		•			•			262 50
Enrichers on l	nand, .	•	•						•	:		41 50
Purifying mat	erials on l	hand	l, .		:		•	:	•	•	•	36 00
Other material	is on hand	l, .	•	•	•	•	•	•	•	•	•	60 15
Stoves and fix	tures on b	and.			•	•	•	•	•	•	•	218 00
Sundry account	nts due the	cor	npany,	•	•	•		•	•	•	•	86 48
Cash on hand,		•	•	•	•	•	٠	•	•	•	•	1,350 92
Total asse	ts, as per	bool	ks of tl	100 91	npa	ny,						\$54,450 56
				LIA	BIL	ITIES.	,					
Capital stock,				_	_		_	_	_	_	_	\$50,000 00
Notes payable						•	·				-	1,000 00
									•		•	
Total liabi	liities, as p	er b	ooks o	f the	COL	npany	7,	•	•	•	•	\$51,000 00
Profit and loss	balance,	•	•	•	•	•	٠	•	•	•	•	3,450 56
												\$54,450 56
		]	MANUI	ACTU	RIN	16 A	200	UNT.		_		_
Operating exp	meas								\$5,7	DR.	10	Cz.
Income from s	•	•	•		•	•	•	•	φυ,	00	10	<b>\$8,228</b> 84
					•	•	•	•				450 90
Balance to pro	Obiuuais, At and los		•	:	•	•	•	•	9 0	)1R	56	200 30
Datatice to pro	III ALIG 100	٠,	•	•	•	•	•	•			_	
									<b>\$8,</b> 6	379	74	<b>\$</b> 8,679 74
		F	PROFIT	AND	Lo	988 A	COO	UNT.		_		0-
Balance June	20 1895									DR.		C⊫ <b>82,676 22</b>
Balance of ma				•	•	•	•	•				2,916 56
Interest naid.					•	•	•	•	•	54	80	2,010 00
Interest paid, Dividends decl	ared	•	•	•	•	•	•	•		40		
Loss on stove	ecount.	•	•	•	•	:	•	•		47		
Loss on stove a Balance June 8	0. 1896.		•							50		
	,,						-	-				
		•							\$5,5	92	78	<b>\$</b> 5, <b>592</b> 78
	7AH	ER	HILL	ELI	3C1	ric	CC	MPA	NY.			
				A	88E	TS.						
Real estate,												819,573 31
Steam plant.						•					•	51,489 22
Electric plant.						•					:	67,874 45
Electric lines.											·	61,840 34
Meters.												2,105 02
m 4								-			•	
Transformers.										•		4,919 48
Arc lamps.		:	•	•		•	:		•		•	4,919 48 12.705 05
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Due for light a	 nd power.		•	•		:	:	:	•	•	•	4,919 48 12,706 05 4.838 78

Carbons on hand, Oil and waste on hand, Incandescent lamps on hand, Globes on hand, Chter materials on hand, Horses, wagons, etc., Sundry accounts due the company, Office furniture, Cash on hand, Total assets, as per books of the company,  LIABILITIES. Capital stock, Bonds issued, Notes payable, Unpaid bills,	•
Carbons on hand, Oil and waste on hand, Incandescent lamps on hand, Globes on hand, Globes on hand, Globes on hand, Horses, wagons, etc., Sundry accounts due the company, Office furniture, Cash on hand, Total assets, as per books of the company,  LIABILITIES.  Capital stock, Bonds issued, Notes payable, Unpaid bills,	149 50 55 42 292 52 51 59 ,674 10 500 00 187 55 225 00 ,272 30 ,713 63
Oil and waste on hand,	55 42 292 52 51 59 ,674 10 500 00 167 55 225 00 ,272 30 ,713 63
Incandescent lamps on hand,	292 52 51 59 ,674 10 500 00 167 55 225 00 ,272 30 ,713 63
Capital stock,	51 59,674 10 500 00 167 55 225 00 ,272 30
Dither materials on hand,	,674 10 500 00 167 55 225 00 ,272 30 ,713 63
Horses, wagons, etc., Sundry accounts due the company, Office furniture, Cash on hand, Total assets, as per books of the company,  LIABILITIES.  Capital stock, Sapital sto	500 00 167 55 225 00 ,272 30 ,713 63
Sundry accounts due the company,  Office furniture,  Cash on hand,  Total assets, as per books of the company,  \$267  LIABILITIES.  Capital stock,  Sounds issued,  Notes payable,  Unpaid bills,	167 55 225 00 ,272 30 ,713 63
Office furniture, Cash on hand,	225 00 ,272 30 ,713 63
Cash on hand,	,272 30 ,713 63
Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities   Liabilities	,713 63
LIABILITIES.  Capital stock,	•
LIABILITIES.  Capital stock,	***
Capital stock,	<b>***</b>
Bonds issued,	
Notes payable,	•
Unpaid bills,	,000 00
	,800 00
	353 93
Depreciation fund,	,500 00
	<u>.</u>
Total liabilities, as per books of the company,	
Profit and loss balance,	,559 70
<u>**267</u>	,713 63
MANUPACTURING ACCOUNT. Dr.	CR.
Operating expenses,	
	,515 69
other sources,	2 00
	2 00
\$50,517 69 \$50 Profit and Loss Account.	,517 69
Dr.	Cr.
Balance June 30, 1895,	,010 61
Balance of manufacturing account,	640 41
Rents,	184 00
Other items of income,	27 50
Interest paid,	_, 00
• •	
Dividends declared,	
Depreciation,	
Depreciation fund,	
Balance June 30, 1896,	
	,862 52
\$55.862 52   \$55	,
#55,862 52 \$55  HAVERHILL GAS LIGHT COMPANY.	
HAVERHILL GAS LIGHT COMPANY. Assets.	005 5
HAVERHILL GAS LIGHT COMPANY.  Assets.  Real estate,	,033 71
HAVERHILL GAS LIGHT COMPANY.  Assets.  Real estate,	,997 86
HAVERHILL GAS LIGHT COMPANY.  Assets.  Real estate,	
HAVERHILL GAS LIGHT COMPANY.  Assets.  Real estate,	,997 86
HAVERHILL GAS LIGHT COMPANY.  Assets.  Real estate,	,997 86 ,117 07 ,699 52
HAVERHILL GAS LIGHT COMPANY.  Assets.  Real estate,	,997 86 ,117 07 ,699 52 ,925 36
HAVERHILL GAS LIGHT COMPANY.  Assets.  Real estate,	,997 86 ,117 07 ,699 52 ,925 36 ,418 90
HAVERHILL GAS LIGHT COMPANY.  Assets.  Leal estate,	,997 86 ,117 07 ,699 52 ,925 36 ,418 90 163 70
HAVERHILL GAS LIGHT COMPANY.  Assets.	,997 86 ,117 07 ,699 52 ,925 36 ,418 90 163 70 562 50
HAVERHILL GAS LIGHT COMPANY.  Assets.  Leal estate,	,997 86 ,117 07 ,699 52 ,925 36 ,418 90 163 70

lvi	GAS	AND	EL	ECT	RIC	LIC	GHT.	[Jan.
Stoves on hand,								<b>\$2,208</b> 00
Fixtures on ban					•	•		640 00
Sundry accounts	due the							195 44
Cash on hand,		• •						2,240 02
Investments,								21,646 29
							•	
Total assets,	as per b	ooks of th	e com	pany,	•	•		<b>\$</b> 286,473 25
			Liab	ILITIE	3.			
Capital stock,								<b>\$</b> 75,000 00
Notes payable,								29,000 00
Unpaid bills,								3,946 04
Total liabilit			f the c	-	y, .	•	• • •	\$107,946 04 178,527 21
								\$286,473 25
		MANUI	2 A COTTO	DTNG A	CCOTTN	m		•
		MANU	AUIUI	aing 2	100001	• • •	Dr.	C'R.
Operating expen	-				•	•	<b>\$76,488 42</b>	
Income from sale			•		•	•		\$94,390 62
	iduals,			•	•	•	10 150 00	1,257 13
Balance to profit	and loss	, .		•	•	•	19,159 33	
							\$95,647 75	\$95,647 75
		PROFIT	AND	Loss A	Accour	NT.		
~ · · · ·	100=						Dr.	Cr.
Balance June 30,			•	• •	•	•		\$168,610 71
Balance of manu	_			•	•	•		19,159 33
Rents, Jobbing account,		• •	•	•	•	•		711 00 48 04
Interest paid,		• •		•	•	•	\$1,001 87	10 01
Dividends declar				•	•	•	7,500 00	
Depreciation, .		<i>.</i> .	: :	•	:	•	1,500 00	
Balance June 30,		• •	: :		-	•	178,527 21	
balance vane so,	1,		•	•	•	· -		
						Ŧ	188,529 08	<b>\$188,529 08</b>
		_						
	HOLY	OKE W.	ATER	POW	ER C	омр.	ANY.	
		Manup	ACTUB	ing A	.ccoun	т.	Dz.	CR.
Operation owner	gas	3, .					<b>\$</b> 76,572 73	
Operating expens		ctric,			•		25,079 53	
Income from sale						•		\$79,690 13
	duals,					•		14,870 79
	er source					•		3 90
		ic light ar		er, .	•	•		53,072 26
oth	er sources	electric	), .	•		•	18.000.00	734 86
Balance to profit	and loss,	} gas,		•	•	•	17,992 09	
•		electri	ıc, .	•	•	٠.	28,727 59	

\$148,371 94 \$148,371 94

### HUDSON ELECTRIC LIGHT COMPANY.

				44.	101	itio		** *	0014					
						Asse	T8.							
Steam plant,												_	\$1,365	77
Electric plant, Electric lines, Meters, Arc lamps, Due for light s		·	•	•			·		-	Ċ	-	•	6,522	
Electric lines.				·		-	•	-				-	6,178	
Meters.							•		-	·	-		258	
Arc lamps.	·	•	•	•	•	•	•		•	•		•	1,926	
Due for light s	und i	nower		•	·		•			Ċ	·		603	
Cash on hand,			, .	·		·	·	·		•	•		643	
Investments,					•	•	·	-	•	·		•	5,875	
									•	•	•	•		
Total asse	ts, a	s per	book	s of t	he c	ompa	ny,	•	•	•	•	•	<b>\$</b> 23,37 <b>3</b>	<b>3</b> 6
					Lı	ABIL	TIES							
Capital stock,													\$15,000	00
Notes payable			•	•	:		•	·	•	:	÷	:		
										•	•	•		
Total liabi	llitie	s, as	per t	ooks	of th	e co	mpan	у,	•	•		•	<b>\$17,500</b>	
Profit and loss	bal	ance,		•			•	•		•	•		5,873	36
													\$23,373	26
			1	Manu	PAC'	rurii	A or	ccou	NT.				<b>\$20,010</b>	JU
											DR.		Cr.	
Operating exp	ense	8, .	•	. •		•	•	•	•	*	2,754	94		
Income from s	ale c	of ligh	it an	d pow	er,	•	•	•	•				<b>\$</b> 3,846	38
Balance to pro	fit a	nd los	s,	•	•	•	•	•	•		1,091	44		
										2	3,846	38	\$3,846	38
			P	ROPII	' AN	D Lo	88 A	ccot	NT.	•				
D. 1											1)R.		Cr.	
Balance June 8								•			DR.		\$4,962	
Balance of man	nufa	cturir	12 80	count		•	•	•			DR.		\$4,962 1,091	44
Balance of man	nufa inco	cturir me,	ng ac	count		:	:	:	•			90	\$4,962	44
Balance of man	nufa inco	cturir me,	ng ac	count			:	•	•		<b>\$</b> 180		\$4,962 1,091	44
Balance of man	nufa inco	cturir me,	ng ac	count							\$180 520	00	\$4,962 1,091	44
Balance of man	nufa inco	cturir me,	ng ac	count							<b>\$</b> 180	00	\$4,962 1,091	44
Balance of man	nufa inco	cturir me,	ng ac	count					•		\$180 520	00 <b>3</b> 6	\$4,962 1,091	44 00
Balance of man	nufa inco	cturir me,	ng ac	count			•	•	:		\$180 520 5,873	00 <b>3</b> 6	\$4,962 1,091 520	44 00
Balance of man	nufa inco	cturir me,	ng ac	count							\$180 520 5,873	00 <b>3</b> 6	\$4,962 1,091 520	44 00
Balance of man	nufa inco	cturir me,	ng ac	count						*	\$180 520 5,873 6,574	00 <b>36</b> 25	\$4,962 1,091 520	44 00
Balance of man	nufa inco	eturir me,	ng ac	count	LEC					*	\$180 520 5,873 6,574	00 <b>36</b> 25	\$4,962 1,091 520	44 00
Balance of man Other items of Interest paid, Oil lamps, . Balance June S	nufa inco	eturir me,	PAI	count	LEC			IGH		*	\$180 520 5,873 6,574	00 <b>36</b> 25	\$4,962 1,091 520 \$6,674	44 00 25
Balance of man Other items of Interest paid, Oil lamps, . Balance June S	inco	cturiz me,	PAI	ecount	LEC					*	\$180 520 5,873 6,574	00 <b>36</b> 25	\$4,962 1,091 520 \$6,674	44 00 25
Balance of man Other items of Interest paid, Oil lamps, . Balance June S Real estate, Steam plant.	nufa inco  HY	cturiz me,	PAI	ecount	LEC					*	\$180 520 5,873 6,574	00 <b>36</b> 25	\$4,962 1,091 520 \$6,674 \$20,545 43,854	44 00 25 46 25
Balance of man Other items of Interest paid, Oil lamps, . Balance June S Real estate, Steam plant, Electric plant,	nufa inco	cturiz me,	PAI	ecount	LEC	TRI				*	\$180 520 5,873 6,574 ANY	00 <b>36</b> 25	\$4,962 1,091 520 \$6,674 \$20,845 43,854 36,297	44 00 25 33
Balance of man Other items of Interest paid, Oil lamps, . Balance June State Steam plant, Electric plant, Electric lines,	nufa inco	cturiz me,	PAI	ecount	LEC					*	\$180 520 5,873 6,574	00 <b>36</b> 25	\$4,962 1,091 520 \$6,674 \$20,545 43,864 36,297 55,901	44 00 25 33 64
Balance of man Other items of Interest paid, Oil lamps, . Balance June S Real estate, Steam plant, Electric plant, Electric lines, Meters,	nufa inco	cturing,	PAI	ecount	LEC	TRI		ioh		*	\$180 520 5,873 6,574 ANY	00 <b>36</b> 25	\$4,962 1,091 520 \$6,674 \$20,845 43,854 36,297 55,901 4,147	44 00 25 33 64 39
Balance of man Other items of Interest paid, Oil lamps, . Balance June State, Steam plant, Electric plant, Electric lines, Meters, . Transformers.	nufa inco	cturing,	PAI	cecount	LEC	TRI				*	\$180 520 5,873 6,574 ANY	00 <b>36</b> 25	\$4,962 1,091 520 \$6,574 \$20,545 43,854 43,854 436,297 55,901 4,147 16,468	44 00 25 33 64 39 98
Balance of man Other items of Interest paid, Oil lamps, . Balance June State, Steam plant, Electric plant, Electric lines, Meters, . Transformers.	nufa inco	cturing,	PAI	cecount	LEC	TRI				*	\$180 520 5,873 6,574 ANY	00 <b>36</b> 25	\$4,962 1,091 520 \$6,574 \$20,545 43,854 36,297 55,901 4,147 16,468 13,265	44 00 25 33 64 39 98 50
Balance of man Other items of Interest paid, Oil lamps, . Balance June State, Steam plant, Electric plant, Electric lines, Meters, . Transformers.	nufa inco	cturing,	PAI	cecount	LEC	TRI				*	\$180 520 5,873 6,574 ANY	00 <b>36</b> 25	\$4,962 1,091 520 \$6,574 \$20,545 43,854 36,297 55,901 4,147 16,468 13,265 10,000	44 00 25 33 64 39 98 50 00
Balance of man Other items of Interest paid, Oil lamps, . Balance June State, Steam plant, Electric plant, Electric lines, Meters, . Transformers.	nufa inco	cturing,	PAI	cecount	LEC	TRI				*	\$180 520 5,873 6,574 ANY	00 <b>36</b> 25	\$4,962 1,091 520 \$6,674 \$20,545 43,854 36,297 55,901 4,147 16,468 13,266 10,000 6,440	44 00 25 33 64 39 98 50 00 61
Balance of man Other items of Interest paid, Oil lamps, . Balance June State, Steam plant, Electric plant, Electric lines, Meters, . Transformers.	nufa inco	cturing,	PAI	cecount	LEC	TRI				*	\$180 520 5,873 6,574 ANY	00 <b>36</b> 25	\$4,962 1,091 520 \$6,574 \$20,545 43,854 36,297 55,901 4,147 16,468 13,265 10,000 6,440 129	44 00 25 33 64 39 98 50 00 61 00
Balance of man Other items of Interest paid, Oil lamps, . Balance June State, Steam plant, Electric plant, Electric lines, Meters, . Transformers, Arc lamps, Patent rights, Due for light a Fuel on hand, Carbons on he	nufa linco	ecturing me,	PAI	RK E		Asse	TS			*	\$180 520 5,873 6,574 ANY	00 <b>36</b> 25	\$4,962 1,091 520 \$6,674 \$20,545 43,854 36,297 55,901 4,147 16,468 13,265 10,000 6,440 129 77	44 00 25 46 25 33 64 39 98 50 00 61 00 00
Balance of man Other items of Interest paid, Oil lamps, . Balance June State, Steam plant, Electric plant, Electric lines, Meters, . Transformers, Arc lamps, Patent rights, Due for light a Fuel on hand, Carbons on he	nufa linco	ecturing me,	PAI	RK E		Asse	TS			*	\$180 520 5,873 6,574 ANY	00 <b>36</b> 25	\$4,962 1,091 520 \$6,574 \$20,545 43,854 36,297 55,901 4,147 16,468 13,265 10,000 6,440 129 77 39	44 00 25 33 64 39 98 50 00 61 00 00 25
Balance of man Other items of Interest paid, Oil lamps, . Balance June State, Steam plant, Electric plant, Electric lines, Meters, . Transformers.	nufa linco	ecturing me,	PAI	RK E		Asse	TS			**************************************	\$180 520 5,873 6,574 ANY	00 <b>36</b> 25	\$4,962 1,091 520 \$6,674 \$20,545 43,854 36,297 55,901 4,147 16,468 13,265 10,000 6,440 129 77	44 00 25 33 64 39 98 50 00 00 25 30

lviii	GAS	AND	EL	ECI	RIC	Ll	GHT	•	[Jan.
Other materials	on hand.								<b>\$39</b> 8 37
Horses, wagons									498 69
Sundry accounts	due the	company				-			1,406 15
Office furniture.			<b>,</b>			•		•	60 30
Cash on hand,					·	•		•	184 76
Investments,						•	•	•	15,000 00
Interest and insu			•	•	•	•	•	•	463 44
THEOLOGG MING HID		• •	•	• •	•	•	• •	•	
Total assets	, as per b	ooks of tl	he con	np <b>any</b> ,	•	•		•	\$225,892 02
			LIAB	ILITIB	8.				
Capital stock,									\$100,000 00
Bonds issued,									75,000 00
Notes payable,									42,367 33
Unpaid bills,									4,072 99
,					-			-	
Total liabilit									\$221,440 32
Profit and loss b	alance,							•	4,451 70
					_				<b>\$225,892 0</b> 2
		MANUE	'ACTU	RING A	rccon	T.	D		Cn.
Operating expens	RAR		_		_		\$26,28		<b></b>
Income from sale				•	•	•	<b>Q20,10</b>	• ••	\$41,869 50
		8, .			•	•			336 00
Balance to profit				•	•	•	15,91	6 18	000 00
Dananco to prone	<b>444</b> 1000;		•	• •	•	•	<u>:</u> _		
							<b>\$</b> 42,20	5 50	<b>\$42,20</b> 5 50
		Propit	AND	Loss .	Accorr	NT.	ъ.	_	-
Balance June 30,	1905						Dı	R.	Cr. <b>29</b> ,509 27
Balance of manu			•	•	•	•			15,916 18
Wiring account,	_		•		•	•			9 00
Interest paid,			•	•	•	•	AE 79	0 05	3 W
Dividends declar			•	•	•	`	\$5,73		
		• •	•		•	•	5,00		
Depreciation, .		• •	•	•	•	•	10,25		
Balance June 30,	, 1090,	• •	•	• •	•	•	4,45		
							<b>\$</b> 25, <b>43</b>	4 45	<b>\$25,434</b> 45
	TPS	WICH G	AS I	пент	r COM	PAN	IV.		
	110	W 1011 C		SETS.			• • •		
Real estate.									<b>\$3,70</b> 0 <b>0</b> 0
Machinery and n	nanufacti	ring anni	iance	 B			: :	-	2,165 (0
Street mains, .						-		•	5,347 32
Meters,	•				-			•	2,018 60
	•			•		-	•	•	897 58
Coal on hand,			. '	•	-		: :	•	11 00
Enrichers on han		· ·		•		:		•	120 00
Cash on hand, .				•	•			•	1,984 21
Caon on nance, .	•	• •		•	•	•	•	•	
Total assets,	as per bo	oks of th	e com	panv.					\$16,243 71
Profit and loss be	-							•	7,774 29
				-	-	-	- •	•	
									\$24,015 @

				Li	ABIL	ITI B8						
Capital stock,												<b>\$</b> 16,000
Bonds issued,								•				
Bonds issued, Unpaid dividen	ıds, .											18
Total liabil	lities, as	per b	ooks d	of th	e cor	npan	у,.					\$24,018
		1	Manu	PACT	ruri	NG A	CCOI	INT.				
Onereting evne	nese								•	Dr. 3,626		CR.
Operating expe	nie of ces		•	:	•	•	•	•	•	0,020	UI.	\$6,676
Balance to prof	it and los	, . 18,	:	:	:	:	:			3,050	89	<b>\$0,070</b>
_									_	6,676	_	\$6,676
		F	ROPIT	r an	D L	088 A	cco	UNT.	٠	DR.	-	
Balance June 3	A 1805									9,625	10	CR.
Balance of man	u, 1000, mfacturi		connt	•	•	•	•	•	•	3,020	10	<b>#3</b> 050
nterest paid,					•	•	•	•		480	00	<b>\$</b> 3,050
nterest paid, Dividends decla	· ·	•	•	•	•	•	•	•		720		
Balance June 3	n 190e	•	•	•	•	•	•	•		120	w	7 774
Desiring June 3	o, 1090,	•	•	•	•	•	•	•	_			7,774
									\$1	0,8 <b>2</b> 5	18	\$10,825
			_									
	JAMA	ICA	PLA	IN	GAS	LIC	нт	COI	MPA	NY.		
					Assr							
				•	LOUD							
Real estate.												@104.098
		torin		lianc	Pes				•		•	
dachinery and	manufac	turio	g app	liano	ces,			•	•	:	:	145,951
dachinery and treet mains,	manufac	turio	g app	liano	ces,		•	•	•	· ·	•	145,951 127,203
dachinery and treet mains,	manufac	turio	g app	liano	ces,			•	•	•	:	145,951 127,203 6,000
Machinery and Street mains, Meters, . One for gas,	manufac	turio	g app	liano	ces,			:	:	:		145,951 127,203 6,000 9,795
dachinery and street mains, deters, Due for gas, coal on hand,	manufac	turio	g app	liano	ces,				•			145,951 127,203 6,000 9,795 1,717
dachinery and street mains, deters, Oue for gas, coal on hand, loke on hand.	manufac	turin	g app	liano	ces,					•		145,951 127,203 6,000 9,795 1,717
dachinery and street mains, deters, Oue for gas, coal on hand, loke on hand.	manufac	turin	g app	liano	ces,							145,951 127,203 6,000 9,795 1,717 37 225
dachinery and street mains, deters, oue for gas, coal on hand, loke on hand, ar on hand, durichers on he	manufac	turin	g app	liand	ces,							145,951 127,203 6,000 9,795 1,717 37 225 51
dachinery and street mains, deters, Oue for gas, coal on hand, loke on hand, 'ar on hand, 'ar on hand, 'burichers on he	manufac	eturio	g app	liand								145,951 127,203 6,000 9,795 1,717 37 225 51
dachinery and street mains, deters, Oue for gas, coal on hand, loke on hand, 'ar on hand, 'ar on hand, 'burichers on he	manufac	eturio	g app	liand								145,951 127,203 6,000 9,795 1,717 37 225 51 21
dachinery and street mains, deters, Oue for gas, coal on hand, loke on hand, 'ar on hand, 'ar on hand, 'burichers on he	manufac	eturio	g app	liand								145,951 127,203 6,000 9,795 1,717 37 225 51 21
dachinery and street mains, deters, Due for gas, Coal on hand, Coal on hand, Car on hand, Curichers on he Curichers on he Curichers and Curichers on hand, Curichers on hand Curiche	manufac	eturin	g app	liand								145,951 127,203 6,000 9,795 1,717 37 225 51 21 590 225 200
dachinery and street mains, deters, Oue for gas, coal on hand, car on hand, car on hand, curichers on hard, ther materials stoves on hand dorses, wagons undry account	manufac	eturin	g app	liand								145,951 127,203 6,000 9,795 1,717 37 225 51 21 590 225 200 1,772
dachinery and street mains, deters, deters, due for gas, coal on hand, car on hand, car on hand, curifying materials toves on hand dorses, wagons undry account office furniture,	manufac	eturin	g app	liand								145,951 127,203 6,000 9,795 1,717 37 225 51 21 590 225 200 1,772
dachinery and street mains, deters, deters, due for gas, coal on hand, car on hand, car on hand, curifying materials toves on hand dorses, wagons undry account office furniture,	manufac	eturin	g app	·							•	145,951 127,203 6,000 9,795 1,717 37 225 51 21 590 225 200 1,772 150 238
dachinery and treet mains, deters, one for gas, oal on hand, oar on hand, arrichers on he trifying materials toves on hand lorses, wagons undry accountifice furniture, ash on hand,	manufac	eturin	g app	· · · · · · · · · · · · · · · · · · ·							•	145,951 127,203 6,000 9,795 1,717 37 225 51 21 590 225 200 1,772 150 238
dachinery and street mains, deters, Oue for gas, Oue for gas, Oue on hand, Oue on hand, Oue on hand, Out of materials stoves on hand iorses, wagons sundry account office furniture, ash on hand, Total assets	manufac	eturin	g app	· · · · · · · · · · · · · · · · · · ·							•	145,951 127,203 6,000 9,795 1,717 37 225 51 21 590 225 200 1,772 150 238
dachinery and street mains, deters, Oue for gas, Oue for gas, Oue on hand, Car on hand, Carrichers on hard; Carrichers on hard; Carrichers on hand; Carrichers on hand; Carrichers on hand; Carrichers on hand; Carrichers on hand; Total assets Capital stock,	manufac	turin	g app	· · · · · · · · · · · · · · · · · · ·							•	145,951 127,203 6,000 9,795 1,717 37 225 51 21 590 225 200 1,772 150 238 \$398,276
dachinery and street mains, deters, Oue for gas, Oue for gas, Oal on hand, Car on hand, Carrichers on hard; Carrichers on hard; Carrichers on hard; Carrichers on hand; Carrichers on hand; Carrichers on hand; Cash on hand, Total assets Capital stock, Cotes payable,	manufac	turin	g app	· · · · · · · · · · · · · · · · · · ·							•	145,951 127,203 6,000 9,795 1,717 37 225 51 21 590 225 200 1,772 150 238 \$398,276
dachinery and street mains, deters, one for gas, coal on hand, car on hand, car on hand, christers on hardiffer materials stoves on hand dorses, wagons undry account files furniture, ash on hand, Total assets apital stock, totes payable, inpaid bills,	manufac	eturin	g app	· · · · · · · · · · · · · · · · · · ·							•	145,951 127,203 6,000 9,795 1,717 37 225 51 21 590 225 200 1,772 150 238 \$398,276
dachinery and street mains, deters, One for gas, One for gas, One for gas, One on hand, One on hand, One on hand, One on hand, One on hand One on hand One on hand One on hand, Total assets Total assets One on hand, Total assets One on hand, Total assets One on hand, One on hand, One on hand, One on hand, One of the han	manufac	turin	g app	· · · · · · · · · · · · · · · · · · ·							•	145,951 127,203 6,000 9,795 1,717 37 225 51 21 590 225 200 1,772 150 238 \$398,276 \$250,000 45,000 5,148 1,461
dachinery and street mains, deters, One for gas, One for gas, One for gas, One on hand, One on hand, One on hand, One on hand, One on hand One on hand One on hand One on hand, Total assets Total assets One on hand, Total assets One on hand, Total assets One on hand, One on hand, One on hand, One on hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the hand, One of the han	manufac	turin	g app	· · · · · · · · · · · · · · · · · · ·							•	145,951 127,203 6,000 9,795 1,717 37 225 51 21 590 225 200 1,772 150 238 \$398,276 \$250,000 45,000 5,148 1,461
dachinery and street mains, deters, Oue for gas, Oue for gas, Oue for gas, Oue on hand, Car on hand, Carrichers on hardiffers on hardiffers on hand Increase on hand It is to the materials It is to the	manufac	turin	g app	LIA	ces,							145,951 127,203 6,000 9,795 1,717 37 225 51 21 590 225 200 1,772 150 238 \$398,276 \$250,000 45,000 5,148 1,461 17,775
Real estate, Machinery and Street mains, Meters, Due for gas, Coal on hand, Car on hand, Car on hand, Carrichers on ha Carrifying mate: Other materials Stoves on hand, Horses, wagons Sundry account Office furniture, Cash on hand, Total assets Capital stock, Notes payable, Unpaid bills, Deposits, Cremium account Total liabili Crofit and loss	manufac	cturin	g app	LIA	ces,							\$104,096 145,961 127,203 6,000 9,795 1,717 37 225 51 21 590 225 200 1,772 150 238 \$398,276 \$250,000 45,000 5,148 1,461 17,775 \$319,384 78,892

	MAN	UFAC1	ruri	NG A	Accou	NT.	DR		(%
Operating expenses, .							878.248		
Income from sale of gas,	•				·		••••		\$96,939 33
residuals,		•	•	•	·				12,715 37
Balance to profit and loss,		:	•	•	•	•	31,400	3 05	•
Darance to pront and loss,	•	•	•	•	•	•			
							\$109,65	1 70	<b>\$</b> 109,654 70
	Prop	PIT AN	D L	380	A cco	UNT.			_
D-1 7 00 100F							Da	•	CE.
		. •	•	•	•	•			<b>\$77,503</b> 15
Balance of manufacturing			•	•	•	•			31,406 05
Rents,		•	•	•	•	•			120 00
Jobbing and stove account	t, .	•	•	•	•	•			55 36
Other items of income,		•		•	•				5 <b>00</b>
Interest paid,		•	•			•	<b>\$2,2</b> 5		
Dividends declared, .				•		•	25,000	00	
Depreciation,					•	•	2,940	04	
Interest paid,							78,89	2 27	
, ,									
•							\$109,08	9 56	<b>\$109,089</b> 56
т	AWR	PNCE			nom i	) A N/ T	7		
	AWIL	BNCE		10	COM	AN			
		A	8SET	8.					
Real estate (gas), .									\$170,393 79
Machinery and manufactu	ring a	pplian	ces (	gas)	), .				169,891 59
Street mains (gas), .				•					162,925 73
									33,597 47
Due for gas,		_						_	8,838 53
Gas coal on hand		-	-	Ī		į		- 1	3,781 06
Coke on hand		•	•	•	•	·	• •	•	1,606 79
Ter on hand	• •	•	•	•	•	•	•	•	2,364 20
Parishors on hand	•	•	•	•	•	•		•	392 93
Designa materials on her		•	•	•	•	•		•	448 43
Due for gas, Gas coal on hand, Coke on hand, Tar on hand, Enrichers on hand, Purifying materials on ha Other gas materials on ha Stoves on hand, Gas fixtures on hand,		•	•	•	•	•		•	
Other gas materials on ha	na, .	•	•	•	•	•		•	5,849 41
Stoves on nand,		•	•	•	•	•		•	2,528 40
Gas fixtures on hand,		•	•	•	•	•		•	549 84
		•	•	•	•	•		•	24,048 81
Steam plant (electric),			•	•	•	•		•	73,784 00
Electric plant,			•	•	•	•		•	77,658 <b>67</b>
Electric lines,	• , •		•	•		•		•	93,155 40
Electric lines,						•			10,544 79
									18,212 28
Due for electric light and	power,								10,364 33
Fuel on hand (electric),									5,687 80
Claubana on hand									527 67
Oil and waste on hand.									87 50
Incandescent lamps on ha	nd	·		-		-		-	860 47
Oil and waste on hand, Incandescent lamps on ha Globes on hand,		•	•	•	•	•	• •	•	79 84
Other electric materials on	hand	•	•	•	•	•	• •	•	2,933 86
Motors on hand,	. uauu,	•	•	•	•	•		•	4.496 31
			•	•	•	•		•	
Ammonia, Insurance,		•	•	•	•	•		•	1,612 33
insurance,	• • •		•	•	•	•		•	800 00
Sundry accounts due the	compai	ıy, .	•	•	•	•		•	7,823 01
Cash on hand,		•	•	•	•	•		•	12,712 10
Investments,		•	•	•	•	•		•	<b>80</b> 1 01
Total assets, as per bo	oks of	the co	nmpa	nv.					2009.353 37

			L	IABI	LITIE	8.				
Capital stock,										<b>\$590,000</b> 00
Bonds issued,										125,000 00
Notes payable,										74,000 00
Unpaid bills,						•				6,697 89
Deposits,		•							•	243 00
Reserved fund,		•								16,078 28
Depreciation fund, .	•	•	•		•		•		•	14,477 64
Total liabilities, a	a per	book	s of t	he co	mpar	١٧.				\$826,496 81
Profit and loss balance	е, .		•			•				82,861 56
										\$909,358 37
		MAN	UFAC	TUR	NG A	Lecoi	UNT.			•
								Dr.		Cr.
Operating expenses,	gas,		•	•	•	•	•	\$89,546		
I	etec	tric,	•	•	•	•	•	69,497	01	\$107,749 08
Income from sale of gr			•	•	•	•	•			21,257 15
residuals other sou	•		•	•	•	•	•			251 42
other sou sale of el	ootrie	(gas),				•	•			83,006 26
other sou	ireas	(alact	eic)	powe		•	•			3,306 20
		_			•	•	•	39,711	A3	•
Balance to profit and l	088,	gas elec	tric	•	•	•	•	16,814		
		. 0100	, uz ic,	•	•	•	•			
		_		_				<b>\$</b> 215,570	11	<b>\$2</b> 15,570 11
		Prof	IT A	ND L	088	/ cco	UNT.	Dr.		Cr.
Balance June 30, 1895,			_					<i>D</i> <b>B</b> .		<b>\$84,817 01</b>
Balance of gas manufa					·					39,711 63
Balance of electric man										16,814 59
Rents,			•							1,519 37
Jobbing, lamp sales, et	tc., .									3,782 14
Other items of income,	, .									13 72
Interest paid,								\$8,987	92	
Dividends declared, .								35,400	00	•
Depreciation,								1,132	29	
Depreciation fund, . Reserved fund,	•	•						9,477	64	
Reserved fund,			•	•	•		•	8,082		
					•		•	716		
Other items, Balance June 30, 1896,	•	•	•	•	•	•	•	82,861	56	
								\$146,658	46	\$146,658 46
	L	EE E	LEC	TRI	c cc	MP	ANY.			
				Asse	T8.					
Machinery and manufa	cturi	ng an	plian	ces /	gaa).					\$500 00
Street mains (gas), .										2,000 00
										300 00
Real estate (electric).										6,079 00
Steam plant (electric), Electric plant, Electric lines,										11,624 69
Electric plant,										6,311 76
Electric lines,										16,778 48
Meters (electric), .		•		:						810 91
Transformers,										2,146 73
Arc lamps,		:								80 00
Due for electric light an	d pov	rer,	•			•				1,441 78

lxii	GAS	AN	ID	EL	ÆC	CTR	IC	LI	GH'	г.		[Jan.
Proton hand (a	1 a - 4 - 4 - 5											#70 F0
Fuel on hand (e Oil and waste or	band	•	•	•	•	•	•	•	•	•	•	\$79 50 20 50
Incandescent las	nns on he	nd.	•	•	•		•	•	•	•	•	311 81
Incandescent las Other electric m	aterials o	n bai	nd.	:	•	:	:	:	:	•	:	200 00
Horses, wagons,	etc.,											195 35
Horses, wagons, Sundry accounts	due the	comp	any,									639 01
Office furniture,			•									15 75
Cash on hand,					·	•		•				89 63
Total assets	as per b	ooks	of th	e con	npar	ıy,						<b>\$49,624</b> 85
0-4-1-4-3	,			LIAI	BILI	TIB8.						
Capital stock,		•		•	•	•	•	•	•	•	•	\$20,000 00
Bonds issued,			•	•	•	•	•	•	•	•	•	20,000 00
Notes payable, Unpaid bills,				•	•	•	•	•	•	•	•	6,430 00 381 83
Unpaid dividend	 Ia		•		:	:	:	:	•	•	•	800 00
Interest due but	not naid.	•	•					•	•	•	•	330 00
Amounts due fre												869 05
Total liabili		m ba	. <b>.</b> .	e .b.								240 010 98
Total liability Profit and loss b	ues, as pe alance.	. DO		. ппе	com	ipany	,	:	:			\$48,810 88 813 97
												849,624 85
		M	ANUI	ACTU	JRIN	G Ac	:00U1	NT.		Dz.		Ca.
Operating expen	ses, .									307	90	
Income from sal	le of light	and	powe	эг,								<b>\$6,409</b> 07
Balance to profit	and loss	,			•		•		2,	101	17	
								•	\$6,	109	07	\$6,409 07
		P	OPIC	AND	Lo	ви А	cov.	NT.	• •			
Balance June 30	1905									Dr.		CE.
Balance of man					•	•	•	•				\$707 90 2,101 17
					:	•	:					135 38
Interest paid.									81,	330	48	100 00
Dividends declar	red.									800		
Balance June 30	, 1896,										97	
									<b>\$</b> 2,	914	45	\$2,944 45
			_				_					• ,
	LEN	OX 1	ELEC	CTRI	C I	LIGH	тс	OMP	ANY	•		
				A	.88B	rs.						
Electric lines,												\$14,758 54
Meters, .												1,060 51
Transformers,				:				:				1,414 90
Cash on hand,												5,412 00
Total assets	, as per b	ooks	of th	e con	npar	ıy,						<b>\$22,645</b> 95
	. •				-	-						
				LIA	Bili	TIBS.						
Capital stock,			•	•	•	•			•	•	•	\$20,000 @
Deposits, .		•	•	•	•	•	•	•	•	•	•	1,606 22
Total liabili	ities. as n	er bo	oks o	of the	con	npan	7.			_		\$21,606 22
Profit and loss									•			1,039 73
	,									•	-	
					•							\$22,645 95

		N	IANU	PAC	TURI	¥G .	Accou:	NT.		Dr.		CR.	
Operating expe	nses						•				03	· .	
Operating expe	de of ligh	ıt and	DOW	er.					Ψ-	,,		\$2,807	76
Balance to prof	it and los	38,	•						1	039	73	<b>V</b> -,	• -
•		•										40.005	
		P	ROPI	T A	ND L	nee.	Accou	NT.	\$2	,807	76	<b>\$2,807</b>	76
						0017	110000			Dr.		Cz.	
Balance of man						•	•	•				<b>\$1,039</b>	73
Balance June 3	0, 1896,	•	•	•	•	•	•	•	\$1	,039	78		
									81	,039	73	\$1,039	73
			-						•	,		• ,	
LBOM	NSTER	12 T T	OTE		TIO	m	ANT	DΩ	wpp	00	MD.	A 3177	
LEOMI	MAIGN	BLE	CID	uc	LIG	н	AND	PU	WER	CU	M.P.	ANI.	
					Asse	T8.							
Real estate, Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Franchise, Due for light at Fuel on hand, Carbons on hand Oil and waste o Incandescent la Globes on hand Other materials Tools, Horses, wagons Office furniture Cash on hand, Notes receivabl Ingurance,		•										\$11,764	
Steam plant,								•			•	28,491	63
Electric plant,				•								23,987	48
Electric lines,							•					43,279	25
Meters, .						•			•			4,536	75
Transformers,			•			•						10,847	86
Arc lamps,				•	•	•	•			•		9,745	69
Franchise, .		•		•	•		•	:	•	•		10,000	
Due for light ar	nd power,	, .	•	•	•	•	• •	•	•		•	4,394	
Fuel on hand,		•	•	•	•	•	•	•	•	•	•	64	
Carbons on han	ıd, .	•	•	•	•	•	•	•	•	٠	•	30	
Oil and waste o	n hand,	٠.	•	٠	•	•	•	•	•	•	•	48	48
Incandescent la	mps on t	and,	•	•	•	•	•	•	•	•	•	170	
Globes on hand	l,	•	•	•	•	٠	•	•	•	•	•	56	91
Other materials	on hand	۱, ۰	•	٠	•	•	•	•	•	•	•	689	88
Tools,	• •	•	• •	•	•	•	•	•		•	•	689 164 296	81
Horses, wagons	s, etc.,	•	•	•	•	•	•	•	•	•	•	296	
Cook on hand	, .	•	•	•	•	•	•	•	•	•	•	165 409	
Vasa on nand,		•	•	•	•	•	•	•	•	•	•	200	
Ingurance, .	е, .	:	•	•	•	•	•	•	•	•	•	200 264	
Inquiance, .	• •	•	•	•	•	•	•	•	•	•	•		
Total assets	s, as per	books	of t	he c	ompa	ny,	•					\$149,609	17
Profit and loss	balance,						•				•	1,071	91
												\$150,681	08
				L	LABILI	TIE						•	
Capital stock.												250,000	00
Notes pavable.												85,385	65
Unpaid bills,												1,292	39
Capital stock, Notes payable, Unpaid bills, Interest due bu	t not paid	i,										\$50,000 85,385 1,292 13,628	04
Amounts due fi	rom the c	ompa	ny, i	not	includ	led	above,					375	00
Total liabili													
TOTAL HADIL	ines, as h	JET UU	OKS (	)! <b></b>	ie con	ıbeı	цу, .	•	•	•	•	\$100,001	VO
		•					A						
		M	LANU	FAC	TURIN	10	Accour	T.		Dr.		Cr.	
Operating exper	nses								<b>\$</b> 12,		16		
Income from sa	le of ligh	t and	pow	er.					<b>4</b> -4,			\$19,666	19
ot	her source	208.	•	•			•					188	
ot Balance to profi	t and los	8,							7.	066	28		-
•	-	•										010 054	_

lxiv	GAS	AN	D	EL	ECT	RIC	L	GHT.		[Jan.
		Pro	PIT	AND 1	Loss	<b>A</b> c <b>co</b> u	NT.			•
Balance June 3	A 190K							DR an one		Cr.
Balance of man	u, 1090, meneratumina		•		•	•	•	\$2,986	19	A7 Acc 90
Wiring and lan				• •	•	•	•			\$7,066 28 253 51
			•		•	•	•	5,164	77	203 01
Interest paid, Other items.		•	•	• •	•	•	`.	238		
Balance June 3	n 1808	•		• •	•	•	•	200	, 60	1,071 91
Daladoo Vulle o	0, 1000,	•	•	• •	•	•	•			1,071 31
								<b>\$8,3</b> 91	70	<b>\$8,3</b> 91 70
	LEOM	1001	AA		BTS.	ni C	JELF.	ANI.		
Real estate,										\$13,000 00
Machinery and	manufactu	ring	appli	ances,						14,962 97
Street mains,										20,000 00
Meters, .										2,037 03
										•
Coal on hand,				•	:			: :	•	576 83
Coal on hand, Enrichers on ha	nd,				•	:		• •	•	576 83 395 28
Coal on hand, Enrichers on ha Sundry account	nd, .					•	•	· · · · · · · · · · · · · · · · · · ·	· ·	576 83 395 28 37 80
Coal on hand, Enrichers on ha Sundry account Cash on hand,	and, .				•	:	•	· · · · · · · · · · · · · · · · · · ·		576 83 395 28 37 80 2,466 39
Coal on hand, Enrichers on ha Sundry account	and, .						•	· · · · · · · · · · · · · · · · · · ·		576 83 395 28 37 80
Coal on hand, Enrichers on ha Sundry account Cash on hand,	and,	ompa	ny, .		•					576 83 395 28 37 80 2,466 39 1,200 00
Coal on hand, Enrichers on ha Sundry account Cash on hand, Notes receivable Total assets	and, . s due the c	ompa	ny, .		any,					576 83 395 28 37 80 2,466 39 1,200 00 \$55,911 04
Coal on hand, Enrichers on ha Sundry account Cash on hand, Notes receivable	and, . s due the c	ompa	ny, .	comp	any,					576 83 395 28 37 80 2,466 39 1,200 00
Coal on hand, Enrichers on ha Sundry account Cash on hand, Notes receivable Total assets Capital stock,	and, . s due the c	compa	f the	comp	any,					576 83 395 28 37 80 2,466 39 1,200 00 \$55,911 04
Coal on hand, Enrichers on ha Sundry account Cash on hand, Notes receivable Total assets	and, s due the c c c c c d d d d d d d d d d d d d d d	oompa ooks o	ny, .  f the	comp	any,         					\$76 83 395 28 37 80 2,466 39 1,200 00 \$55,911 04 \$50,000 00 5,911 04
Coal on hand, Enrichers on ha Sundry account Cash on hand, Notes receivable Total assets  Capital stock, Total liabili	and, s due the c c c c c d d d d d d d d d d d d d d d	oompa ooks o	ny, .  f the	comp	any, ITIES		• • • • • • • • • • • • • • • • • • • •			576 83 395 28 37 80 2,466 39 1,200 00 \$55,911 04 \$50,000 00
Coal on hand, Enrichers on ha Sundry account Cash on hand, Notes receivable Total assets  Capital stock, Total liabili	and, s due the c c c c c d d d d d d d d d d d d d d d	oompa ooks o	of the	comp	any,		· · · · · · · · · · · · · · · · · · ·			\$76 83 395 28 37 80 2,466 39 1,200 00 \$55,911 04 \$50,000 00 5,911 04
Coal on hand, Enrichers on ha Sundry account Cash on hand, Notes receivable Total assets  Capital stock, Total liabili Profit and loss t	and, .  s due the c  s, .  s, as per bo  ties, as per	oompa ooks o	of the	comp	any,	У,	· · · · · · · · · · · · · · · · · · ·	DB.		\$76 83 395 28 37 80 2,466 39 1,200 00 \$555,911 04 \$50,000 00 5,911 04
Coal on hand, Enrichers on ha Sundry account Cash on hand, Notes receivable Total assets  Capital stock, Total liabili Profit and loss t	and, s due the c c, s, as per bo ties, as per balance,	ooks o	of the	comp	any,	У,		DE.		576 83 395 28 37 80 2,466 39 1,200 00 \$55,911 04 \$50,000 00 5,911 04 \$55,911 04
Coal on hand, Enrichers on ha Sundry account Cash on hand, Notes receivable Total assets  Capital stock, Total liabili Profit and loss t  Operating expen Income from sal	ties, as per balance,	ooks o	of the	comp	any,	У,			79	576 83 395 28 37 80 2,466 39 1,200 00 \$55,911 04 \$50,000 00 5,911 04 Cz. \$7,672 66
Coal on hand, Enrichers on ha Sundry account Cash on hand, Notes receivable Total assets  Capital stock, Total liabili Profit and loss t  Operating expen Income from sal	ties, as per balance,	ooks o	of the	comp	any,	У,		\$4,826		576 83 395 28 37 80 2,466 39 1,200 00 \$55,911 04 \$50,000 00 5,911 04 \$55,911 04
Coal on hand, Enrichers on ha Sundry account Cash on hand, Notes receivable Total assets  Capital stock, Total liabili Profit and loss t  Operating expen Income from sal	ties, as per balance,	ooks o	of the	comp	any,	У,			67	\$55,911 04  \$50,000 00  \$50,000 00  5,911 04  Cz.  \$7,672 66

0	_									A4 000	20		
Operating expenses	3, .	•	•	•	•	•		•	•	<b>\$4,82</b> 6	19		
Income from sale of	f gas,											\$7,672	66
other	sourc	88.										37	80
Balance to profit as										2,883	67	_	
										\$7,710	46	\$7,710	46
		F	ROPIT	AN	D L	880	Acc	ot	NT.			_	
										Dr.		Cz.	
Balance June 30, 18	395,	•				•			•			\$5,080	69
Balance of manufac	cturing	Z 80	count,									2,883	67
Interest received,	. `		•									48	00
Rents,												58	00
Other items of inco												4	60
Dividends declared										\$2,000	00	_	
Construction charge	•				•					111			
•	•								•		-		
Depreciation, .			•	•	•	•		•	•	82			
Balance June 30, 18	89 <b>6</b> ,		•	•	•	•		•	•	5,911	04		
										\$8,104	96	\$3,104	96

### LEXINGTON GAS LIGHT COMPANY.

### Assets.

				799 E	1410.							
Real estate (gas),											\$1,514	95
Machinery and man	ufactu	ring app	lian	ces (	gas),						21,601	20
				. `	•						7,703	70
Street mains (gas), Meters (gas),											911	71
Due for gas, .											408	83
Gas coal on hand,							•				5	60
Tar on hand, .											5	75
Enrichers on hand,				-						-	25	00
Gas fixtures on hand	1		-								64	
Gas fixtures on hand Real estate (electric) Steam plant (electric		•	•	•	•	•	•		•	·	5,201	
Steam plant (electric		•	•	•	·	•	•	•	·	·	13,489	
Electric plant, .	·,. ·	•	•	:	•	•	•	:	•	•	12,369	
Electric lines, .		·	•	•	•	•	•	•	•	•	12,068	
Meters (electric),		•	:		:	•	•	•	•	•	1,514	
Transformers	•	•	•	•	•	•	•	•	•	:	2,502	
Transformers, . Arc lamps, .		•	•	•	•	•	•	•	•	•	2,502 593	
Arc mmps, .			•	•	•	•	•	•	•	•		
Arc lamps,  Due for electric light Fuel on hand (electr	and b	ower,	•	•	•	•	•	•	•	•	1,195 80	•
Fuel on hand (electr Carbons on hand,	1C), .	•	•	•	•	•	•	•	•	•		
Carbons on nand,	• •	•	•	•	•	•	•	•	•	•	10	
Oil and waste on has Incandescent lamps Other electric materi	ıd, .		•	•	•	•	•	•	•	•	33	
Incandescent lamps	on han	d, .	•	٠	•	•	•	•	•	•	892	
Other electric materi	als on	hand,	•	•		•	•	•	•	•	1,748	
TICIOCO MERCITO COM	•	•	•	•	•	٠	•	•	•	•	150	
Sundry accounts due	the co	mpany		•	•	٠	•	•	•	•	8,516	
Insurance and taxes	advan	ced,	•	•	•	•	•	•	•	•	224	47
Total assets, as	per boo	ks of th	e co	mpa	by,	•	•	•	•	•	\$92,834	07
				BILI	TIES.							
Capital stock, Bonds issued, Notes payable, Unpaid bills,		•									\$30,000	00
Bonds issued, .							• '				30,000	00
Notes payable, .		•									11,097	76
Unpaid bills, .											4,690	35
Unpaid dividends,											750	00
Depreciation fund,											600	00
•												<del></del> .
Total liabilities,	as per	books o	f the	e con	npany	,			٠,		\$77,138	11
Profit and loss balan							•	•.	•	•	15,695	96
											\$92,834	07
		MANUI	AOT	URIN	o Ac	cou	NT.					
									Dr.		CR.	
Operating expenses,	gas,	ric,	•	•	•	•	•	-	2,123			
			•	•	•	•	•		5 <b>,98</b> 9	50		
Income from sale of	• •		•	•	•	•	•				<b>\$2,779</b>	
other se					•	•	•					90
sale of	electric	light a	nd p	OW61	·, .		•				9,152	92
Balance to profit and	lloes	∫ gas,			•				678	12		
	. 1000,	l electr	ic,	•	•	•	•	:	3,163	42		
								\$1	1,954	56	\$11,954	56

lxvi	GAS	AND	ELECTRIC	LIGHT
IXVI	GAD	AND	ELECTRIC	mon1.

[Jan.

\$125,331 32 \$125,331 33

							•			
	<b>n</b> -			<b>T</b>						
	PR	TITO	AND	LOS	8 A	000UN	IT.	Dr.		Ca.
Balance June 30, 1895,										\$14,415 62
Balance of gas manufactu			unt.							678 12
Balance of electric manuf										3,163 42
Rents,		•								10 00
2021						-				354 20
	-	_	_			-				6 86
Interest paid.			-	-	-			\$2,18	2 26	
Other items of income, Interest paid, Dividends declared, . Balance June 30, 1896,		-	-			-			0 00	
Balance June 30, 1896.		•	•	•	•	•	•	15,69		
2000, 1000,	•	•	•	•	•	•	•			
								\$18,62	8 22	\$18,628 22
		_					•	<b>V</b> ,		<b>V</b> 22,020
LOWEL	L E	LEC	rkic	; Li	GHI	CO	KPUI	KATIO	N.	
			A	BBBT	8.					
<b>-</b> • · · ·										
Real estate,	•	•	•	•	•	•	•	• •	•	\$27,753 01
Steam plant,	•	•	•	•	•	•	•		•	98,051 21
Electric plant,		•	•	•	•	•	•	• •	•	131,729 32
	•	•	•	•	•	•	•		•	261,554 25
	•	•	•	•	•	•	•		•	790 46
Inside wiring,		•		•	•	•	•		•	10,172 01
Inside wiring, Due for light and power, Fuel on hand,	•	•	•	•	•	•	•		•	11,307 98
Fuel on hand,	•	•	•	•	•	•	•		•	1,059 96
Carbons on hand, .	•	•	•	•	•	•	•		•	716 40
Oil and waste on hand, Incandescent lamps on h	•	•	•	•	•	•	•		•	192 30
Incandescent lamps on h	and,		•		•	•	•		•	297 55
Globes on hand, .				•	•	•	•		•	29 00
Other materials on hand	, •	•	•			•	•		•	3 <b>,9</b> 69 84
Insurance,	•	•	•	•		•	•		•	419 70
Horses, wagons, etc.,	•	•	•	•	•	•	•			<b>5</b> 65 00
Other materials on hand Insurance, Horses, wagons, etc., Sundry accounts due the Office furniture,	com	pany	,		•	•	•			579 18
Office farniture, .		•	•	•		•	•		٠.	200 09
Cash on hand,	•		•	•	•	•	•			3,667 60
Investments,		•	•	•	•	•	•			1,602 50
Total assets, as per	haaks	of t	he eo	mna	n W					2554,657 27
Total assets, as put	-	. 01 0		ım pu	u,,	•	•	•	•	<b>4</b> 001,001 -1
			L	IABII	ITIE	8.				
Capital stock,				_						<b>\$300,000 0</b> 0
	•	•	•	•	•	•	•		• •	183,000 00
	•	•	•	•	•	•	•	•	• •	15,000 60
Notes payable,	•	•	•	•	•	•	•	•		4,989 40
Unpaid bills,	•	•	•	•	•	•	•	•	• •	1,300 10
Total liabilities, as profit and loss balance,	per be	ooks	of th	e cor	npan	y,				\$502,989 40
Profit and loss balance,	•				•	•		•		51,657 87
•										
	_									<b>\$554,65</b> 7 27
	1	MAN	JPAC'	TURI	NG A	rccon	NT.		Dr.	Cts.
Operating expenses, .				_	_	_			513 <b>79</b>	
Income from sale of ligh				•	•	•	·	41.16	, ,	\$125,331 32
Balance to profit and lo						:	•	AR G	317 53	411440. W
Paranco so brone and to	,	•	•	•	•	•	•			

**\$265,495 23 \$265,495 23** 

									•
•	PROPIT	I AN	d L	088 A	oco	J <b>nt.</b>	Dr.		Cr.
Balance June 30, 1895,							DR.		\$32,913 68
Balance of manufacturing		•	•	•	•	•			53,817 58
			•	•	•	•			1,038 01
Shop and jobbing account		•	•	•	•	•			477 4
Interest paid,	•	:	•	•	•	•	\$11,665	46	2,, 2,
Dividends declared, .		•	-	•	•	•	21,000		
Depreciation.		•	-	•	•	•	3,913		
Depreciation, Balance June 30, 1896,			•	•	•	•	51,667		
,,,,,,		•		•	•	•	\$88,246		\$88,246 67
	-				_		<b>Q</b> 00,210	••	<b>\$</b> 00,210 0.
ro	WELL (	3A8	LIG	нт	COP	4PAN	IY.		
		1	Ass E	TS.					
Real estate,									\$425,000 00
Machinery and manufactu	iring app	liano	38, 8	street	mai	ns and	l meters,		136,112 26
Due for gas,	•		•						2,356 08
Coal on hand,									20,444 00
Coke on hand,									1,423 00
Tar on hand,									2,700 00
Enrichers on hand, .			•						6,336 47
Purifying materials on ha	nd, .								60 00
Stoves on hand, .									9,000 00
Cash on hand,									24,094 49
Investments,		•		•		•		•	75,000 <b>0</b> 0
Total assets, as per bo	oks of th	1 <b>e</b> co	mpa	ny,	•	•			<b>\$702,526</b> 30
		T - 4		ITIBS.					
		LAA	MILL	11150.					
Capital stock,	• •	•	•	•	•	•	• •	•	\$500,000 00
Total liabilities, as pe	r books o	of the	con	npany	٠, .				\$500,000 00
Profit and loss balance,									202,526 30
									<b>\$</b> 702,526 <b>3</b> 0
	MANU	PACT	URIN	io A	cov	NT.			<b>4</b> , 02,020 0.
						• • • • • • • • • • • • • • • • • • • •	Dr.		Cn.
Operating expenses, .		•		•	•	•	<b>\$</b> 222,036	33	
Income from sale of gas,		•	•	•	•	•			<b>\$293,220</b> 62
residuals,		•	•	•	•	•			42,745 00
Balance to profit and loss,	•	•	•	•	•	•	113,929	29	
							<b>\$335,9</b> 65	62	<b>\$</b> 335, <b>965</b> 69
	PROFIT	LAN	D L	088 A	ccot	NT.			_
Dala T 00 1005							DR.		Cr.
Balance June 30, 1895,	• •	•	•	•	•	•			\$146,031 79
Balance of manufacturing		,	•	•	•	•			113,929 29
	• •	•	•	•	•	•	<b>61</b> 010	10	5,534 1
Interest paid,		•	•	•	•	•	<b>\$1,219</b>	•	
Dividends declared, .		•	•	•	•	•	60,000		
Depreciation,		•	•	•	•	•	1,749		
Datance June 30, 1890,		•	•	•	•	•	202,526	-JU	

\$290,142 00 \$290,142 00

### LYNN GAS AND ELECTRIC COMPANY.

### Assets.

Real estate (gas)										•		\$189,868 40
Machinery, man	ufactu	ring a	pplia	nces	and a	street	mair	18 (g	28),			130,854 12
Due for gas,				•								20,398 63
Gas coal on hand	i, .	•		•								7,164 46
Coke on hand, .		•									•	60 00
Tar on hand,						•						400 00
Coke on hand, Tar on hand, Enrichers on han	nd, .	•										180 00
Parifying materi	els on	hand		_	_							648 00
Other gas materi Stoves on hand, Real estate (elec	als on	hand	, .									1,153 18
Stoves on hand,												1,774 81
Real estate (elec	tric),						•					101,857 57
Steam plant (ele	ctric),		•									59,128 98
Electric plant,												38,226 35
Electric lines, m	eters, 1	transfe	orme	rs an	d arc	lam	P8 <b>,</b>					95,153 74
Due for electric	light a	nd po	wer,									12,584 01
Fuel on hand (e	lectric)	), .										260 03
Carbons on hand	i, .											1,661 25
Oil and waste on	hand	, .										31 00
Oil and waste on Incandescent lar	nps on	hand	١, .									518 39
Globes on hand,												50 00
Globes on hand, Sundry account	due t	he con	npan	у								973 15
Cash on hand,			٠.	•								473 07
Investments,												11,021 69
				<b>T</b> -								
					ABIL		ı <b>.</b>					
Capital stock,		•					ı. •					\$400,000 00
Capital stock, Notes payable,												62,960 00
Capital stock, Notes payable, Unpaid bills,	• •											62,950 00 11,689 09
Capital stock, Notes payable, Unpaid bills, Deposits,	· · · · · · · · · · · · · · · · · · ·	•		•	•	•	•	:	:			62,950 00 11,689 09 854 77
Capital stock, Notes payable, Unpaid bills, Deposits, Depreciation fur	 			•	•	•	•	:				62,950 00 11,689 09 854 77 12,252 05
Capital stock, Notes payable, Unpaid bills, Deposits, Depreciation fur Amounts due fre		comp		•	•	•	•	:	•			62,950 00 11,689 09 854 77 12,252 05
Amounts due fro	om the	comi	any,	not i	includ	ded a		:	•		•	62,960 00 11,689 09 854 77 12,252 05 4 00
Amounts due fro	om the ties, as	comp	any, ooks	not i	includ	ded a		•	•		:	62,960 00 11,689 09 854 77 12,252 05 4 00 8487,749 91
Amounts due fro	om the ties, as	comp	any, ooks	not i	includ	ded a		•	•		:	62,960 00 11,689 09 854 77 12,252 05 4 00
Amounts due fro	om the ties, as	comp	any, ooks	not i	includ	ded a		•	•		:	62,960 00 11,689 09 854 77 12,252 05 4 00 \$487,749 91 186,690 92
Amounts due fro	om the ties, as	comp	any, ooks	not i	includ	ded a		•	•		:	62,960 00 11,689 09 854 77 12,252 05 4 00 8487,749 91
Amounts due fro	om the ties, as	s per l	oany,	not i	includ	ded a			•		:	62,960 00 11,689 09 854 77 12,252 05 4 00 \$487,749 91 186,690 92
Amounts due fro	om the ties, as	s per l	oany,	not i	includ	ded a	bove,				:	62,960 00 11,689 09 854 77 12,252 05 4 00 \$487,749 91 186,690 92
Amounts due fro	ties, as	s comp	ooks Man	not i	includ	ded a	bove,		•	•		62,960 00 11,689 09 854 77 12,252 05 4 00 8487,749 91 186,680 92
Amounts due from Total liability Profit and loss by Operating expenses	om the	gas,	MAN	not i	include cor	ded a mpan	bove,		\$114		67	62,960 00 11,689 09 854 77 12,252 05 4 00 8487,749 91 186,680 92
Amounts due from Total liability Profit and loss by Operating expensions of the Income from sale	ties, as alance	gas,	MAN	not i	include cor	ded a mpan			\$114	DE.	67	62,950 00 11,689 09 854 77 12,252 05 4 00 8487,749 91 186,690 92 \$674,440 83
Amounts due from Total liability Profit and loss by Operating expensions from salares	ties, as alance	gas,	MAN	not i	include cor	ded a mpan			\$114	DE.	67	62,950 00 11,689 09 854 77 12,252 05 4 00 \$487,749 91 186,690 92 \$674,440 83
Amounts due from Total liability Profit and loss by Operating expensions from salares	ties, as alance	gas, electric	MAN cic,	not i of the	include con	ded a mpan	bove,		\$111-	DE. 4,707	67 21	62,950 00 11,689 09 854 77 12,252 05 4 00 8487,749 91 186,690 92 \$674,440 83
Amounts due from Total liability Profit and loss by Operating expensions from saliness and the saliness from salin	ties, as alance	gas, eectric	MAN ric, light	not i of the	include con	ded a mpan			\$111- 77	Dn. 4,707 3,717	67 21	62,950 00 11,689 09 854 77 12,252 05 4 00 8487,749 91 186,690 92 \$674,440 83 Cr. \$146,344 11 16,294 19
Amounts due from Total liability Profit and loss by Operating expensions from salares	ties, as alance	gas, eectric	MAN ric, light	not i of the	include con	ded a mpan			\$111- 77	DE. 4,707	67 21	62,950 00 11,689 09 854 77 12,252 05 4 00 8487,749 91 186,690 92 \$674,440 83 Cr. \$146,344 11 16,294 19

		10		4 345	Toss		.ccoun	_					
		r	ROFIT	AND	L/055	А	CCOUN	т.		Dr.		Cr.	
Balance June 30	), 1895,		•				•					\$163,184	18
Balance of gas i												47,930	63
Balance of elect	ric ma	nufaci	uring	accou	ınt,							53,786	49
Rents, .		•										815	65
Interest paid,							•		34	<b>,02</b> 6	03		
Dividends decla	red, .								40,	,000	00		
Depreciation,			•						35	,000	00		
Dividends decla Depreciation, Balance June 30	), 1896,								186	,690	92		
									9265	716	95	<b>\$26</b> 5,716	OK
			-						<b>\$200</b>	,,,,,,,	80	<b>\$200,710</b>	00
		MAI	DEN	ELE	CTR	IC	COM	PAI	NY.				
				A	Lesett	3.						•	
Real estate,												<b>\$28,961</b>	07
Steam plant,												53,894	
Bleetric plant,												68,554	
Electric lines,		•										192,295	
Motors												16,641	
Transformers.												16,926	
Transformers, Arc lamps, Due for light an Fuel on hand, Carbons on han												11,679	
Due for light an	d pow	er										9,924	
Fuel on hand, Carbons on han Incandescent la Globes on hand Other materials Horses, wagons Sundry account												1,181	
Carbons on han	d											200	
Incandescent las	mps on	hand										411	90
Globes on hand			•									36	80
Other materials	on ha	nd										1,382	87
Horses, wagons	. etc.,											1,333	
Sundry account	s due t	he cor	npany									3,210	
Office furniture,			٠. ٠									605	25
Cash on hand,												1,322	24
Investments,		•	•		•		•					10,000	00
Total assets	s, <b>as</b> pe	r bool	ks of t	he co	mpan	7,						\$418,561	64
				LIA	BILIT	I KØ	ı.						
Capital stock,												\$155,200	
Bonds issued,			•			•						100,000 148,800	00
Notes payable,		•	•									148,800	00
Unpaid bills,							•		•			4,127	41
Interest accrued	l, .	•	•	•	•	•	•	•	•	•	•	1,277	51
Total liabili	ities. a	s per t	ooks	of the	com	oan	ıv.					\$409,404	92
Profit and loss												9,156	
- 10.00 0.00			·	•	•	•	•		-	•	-		—
			M 4 55 **	<b>D</b> 4 ~~			CCOUN	•				\$418,561	64
			UNADU	FACT	UKING	Λ	LCOOUN	1.		DR.		Ca.	
Operating expen	nses,								\$59	,323	38		
Income from sa				er,								\$100,824	71
Balance to profi									41,	,501	33		
•		•									_		_
									\$100	,824	71	\$100,824	71

1		
ı	YY	

## GAS AND ELECTRIC LIGHT. [Jan.

•		_			_						
		P	ROPIT	AND	Lo	88 A	CCOUN	T.	Dr.		Ca.
Balance June 3	0. 1895.								<i>D</i> <b></b>		\$27,925 0
Release of mer	n fo atawi	ng ac	count.								41,501 3
Lamp sales.			•								300 3
Interest paid,									\$14,935	5 24	
Dividends deck	ared, .						•		9,31	2 00	
Depreciation,							•		34,660	00	
Other items,									1,66	2 72	
Lamp sales, Interest paid, Dividends deck Depreciation, Other items, Balance June 3	0, 1896,		•			•			9,15	8 72	
			_						\$69,72	5 <b>68</b>	\$69,726 6
MA	ALDEN	ANI	ME	LRO	SE	GA8	s LIG	нт	COMP	ANY	
				I	1881	ETS.					
Real estate.	_	_			_	_		_			\$55,795 6
Machinery and	menufe	cturio	e gann	· liance		•	•	•	• •	•	75,671 9
Street mains,			բ ⊶հե	. 401100	٠,	•	•	•	• •	•	147,403 7
Meters, .		•	•	•	•	•	•	•		•	11,200 0
		:	:	:	•	•	•		•	:	15,066 6
Coal on hand.		·	•	•	•	·	•	•	•	•	1,361 8
Coal on hand, Coke on hand, Tar on hand, Enrichers on h Purifying mate Other materials Stoves on hand Sundry accoun Cash on hand, Investments.			•	•	•	•	•		•	•	1,125 0
Tar on hand.	•	•	•		•	:	•	•		•	500 0
Enrichers on h	and	•	•		•	•	•	•		•	78 0
Porifying mate	rials on	hand.	•	•	•	•	•	•		•	109 2
Other materials	on han	1	•	•	•	•	-	•		•	3,823 1
Stoves on hand		-, ·		-		·				·	148 2
Sundry accoun	ts due th	e com	Dan⊽.				-			•	4.154 5
Cash on hand.			· [·] ,			-	-			-	418 2
Investments,										-	7,514 3
•											
Total asset	s, as per	book	s of th	e con	u <b>pa</b>	ny,	•	•		•	<b>\$</b> 324,370 6
				Liai	BILI	TIES.					
Capital stock,									• •	_	<b>\$235,000</b> 00
Notes payable.						•			: :	:	50,000 00
Unpaid bills.										Ċ	
Capital stock, Notes payable, Unpaid bills, Deposits, .											1,680 00
Unpaid dividen	ds	•	•				•	•			1,177 50
Premium accou				•		•	•				15,073 7
Total liabil	itias on	nor ha	oka o	f the	<b>~</b> ~~	nner-				-	\$313,644 59
Profit and loss	balance,	her no	OKS O		·	i panj	, ·	•	• •	•	10,726 06
	-									-	
		_						_			<b>\$324,370</b> 65
		Ŋ	a anu	ACTU	RIP	IG A	CCOUN:	r.	Dr.		Ca.
Operating expe	nses								\$79,718	3 39	~
Income from 80							•				\$88,546 87
	esiduals,										13,240 88
Balance to prof									22,069	<b>3</b> 6	•
-											
									\$101,787	7 75	\$101,787 75

			)		T.	A					
		1	PROPIT	Al	то го	88 A	CCOU	NT.	Dr.	Cz.	
Balance June 30, 189	5,									\$7,288	86
Balance of manufact	urin;	z ac	count,							22,069	36
Other items of incom	е, `	•								170	99
Interest paid, .	•								\$1,847 46		
Dividends declared,									14,100 00		
Jobbing account,									2,171 14		
Other items, .									684 55		
Balance June 30, 189	6,	•	•	•	•	•	•	•	10,726 06		
									\$29,529 21	\$29,529	21
			_								

### MANUFACTURERS' GAS LIGHT COMPANY OF FALL RIVER.

### Assets. **\$3,000 00** Machinery, manufacturing appliances, street mains and meters, 46,804 99 Due for gas, 246 02 Coal on hand. . 200 00 Coke on hand. . 200 00 Cash on hand. . 2.940 07 Total assets, as per books of the company, \$53,591 08 LIABILITIES. Capital stock. . **\$50,000 00** Total liabilities, as per books of the company, \$50,000 00 Profit and loss balance, . . . . . . 3,591 08 \$53,591 08 MANUPACTURING ACCOUNT. De. CR. Operating expenses, . \$19,598 65 Income from sale of gas, . **822,849** 10 residuals. 2.991 80 Balance to profit and loss, 6,242 25 **\$25,840 90 \$25.840 90** PROPIT AND LOSS ACCOUNT. Dr. CR. Balance June 30, 1895, **27,388 83** Baiance of manufacturing account, 6,242 25 Interest paid, . . **840 00** Dividends declared, . 4,000 00 Depreciation, . . 6,000 00

**213,631 08** 

Balance June 30, 1896,

### MARBLEHEAD GAS AND ELECTRIC LIGHT COMPANY.

				.88R	тв.						
Real estate,											<b>\$4,309</b> 19
Machinery and manufactu	uring	g app	liance	38,							13,806 39
											21,000 00
Meters,											1,788 03
Meters, Due for gas,											530 80
Gas coal on hand,											1,561 81
Coke on hand,											94 00
Tar on hand,											247 02
Stoves on hand, .											48 45
Gas fixtures on hand,			•								148 92
Office furniture, .											50 00
Cash on hand,											114 76
Investments,	•	•	•	•	•	•	•	•		•	450 00
Total assets, as per b	ooki	of t	he co	mpa	ny,						\$44,149 37
Profit and loss balance,	•	•	•	•	•	•	•	•	•	•	4,215 05
•			Lia	BIL	ITI BS.	,					\$48,364 42
Capital stock,											\$40,000 00
•											6,500 <b>0</b> 0
							•				
Unpaid bills,					:			•			664 42
Total liabilities, as pe	er bo	oks (	of the	cor	npan	<b>y</b> ,					\$48,364 42
					•						•
	N	<b>I</b> ANU	FACT	URI	NG A	ccou	NT.		D=		<b>~</b>
Operating expenses				URII	NG A	ccov	NT.		Dr. 5,521	95	Cas.
Operating expenses, . Income from sale of gas.				URII	NG A	ccov	NT.	*	Dr. <b>5</b> ,521	95	
Income from sale of gas,				URII	NG A	ccou	NT.			95	<b>\$</b> 5,006 42
Income from sale of gas, residuals,					NG A	ccou	NT.	*		95	\$5,006 42 396 00
Income from sale of gas, residuals, other source	es,	•	:		NG A	ccou	NT.			95	\$5,006 42 <b>396</b> 00 8 00
Income from sale of gas, residuals,	es,				NG A	ccov	NT.		5,521		\$5,006 42 396 00 8 00 111 53
Income from sale of gas, residuals, other source				•	•	•	:				\$5,006 42 <b>396</b> 00 8 00
Income from sale of gas, residuals, other source			:	•	•	•	:		5,521 5,521		\$5,006 42 396 00 8 00 111 53 \$5,521 95
Income from sale of gas, residuals, other source Balance to profit and loss	es,	· · ·		•	•	•	:	*	5,521 5,521 Da.	95	\$5,006 42 396 00 8 00 111 53
Income from sale of gas, residuals, other source Balance to profit and loss Balance June 30, 1895,	es,	· · · ·	T AN			•	:	*	5,521 5,521 Dr. 3,653	95 86	\$5,006 42 396 00 8 00 111 53 \$5,521 95
Income from sale of gas, residuals, other source Balance to profit and loss  Balance June 30, 1895, Balance of gas manufactu	es, s,	ROPI	T AN			•	:	*	5,521 5,521 Dr. 3,653	95 86	\$5,006 42 396 00 8 00 111 53 \$5,521 95
Income from sale of gas, residuals, other source Balance to profit and loss Balance June 30, 1895,	es, p,	ROPI	T AN			•	:	*	5,521 5,521 Dr. 3,653	95 86 53	\$5,006 42 396 00 8 00 111 53 \$5,521 95
Income from sale of gas, residuals, other source Balance to profit and loss Balance June 30, 1895, Balance of gas manufactu Interest paid,	es,	ROPI	T AN			•	:	*	5,521 5,521 Dr. 3,653	95 86 53 66	\$5,006 42 396 00 8 00 111 53 \$5,521 95
Income from sale of gas, residuals, other source Balance to profit and loss Balance June 30, 1895, Balance of gas manufactu Interest paid, Balance June 30, 1896,	es, B,	ROPI	ount,		O88 - A	· · · · · · · · · · · · · · · · · · · ·	UNT.	*	5,521 5,521 Dr. 3,653 111 449	95 86 53 66	\$5,006 42 396 00 8 00 111 53 \$5,521 95 Cm.
Income from sale of gas, residuals, other source Balance to profit and loss Balance June 30, 1895, Balance of gas manufactu Interest paid,	es, B,	ROPI	Ount,	ELI	OSS A	· · · · · · · · · · · · · · · · · · · ·	UNT.	*	5,521 5,521 Dr. 3,653 111 449	95 86 53 66	\$5,006 42 396 00 8 00 111 53 \$5,521 95 Cm.
Income from sale of gas, residuals, other source Balance to profit and loss Balance June 30, 1895, Balance of gas manufactulaterest paid, Balance June 30, 1896, MARI	P	PROPI	ount,	ELM	OSS A	· · · · · · · · · · · · · · · · · · · ·	UNT.	*	5,521 5,521 Dr. 3,653 111 449	95 86 53 66	\$5,006 42 396 00 8 00 111 53 \$5,521 95 Cz. \$4,215 05
Income from sale of gas, residuals, other source Balance to profit and loss Balance June 30, 1895, Balance of gas manufactulaterest paid, Balance June 30, 1896, MARI Real estate,	P	PROPI	T AN	ELI	OSS A	Accord	COM	* * * * * * * * * * * * * * * * * * *	5,521 5,521 Dr. 3,653 111 449	95 86 53 66	\$5,006 42 396 00 8 00 111 53 \$5,521 95 Cm. \$4,215 05 \$4,215 05
Income from sale of gas, residuals, other source Balance to profit and loss Balance June 30, 1895, Balance of gas manufactulaterest paid, Balance June 30, 1896, MARI Real estate,	P	PROPI	T AN	ELI	OSS A	Accord	COM	* * * * * * * * * * * * * * * * * * *	5,521 5,521 Dr. 3,653 111 449	95 86 53 66	\$5,006 42 396 00 8 00 111 53 \$5,521 95 Ca. \$4,215 05 \$4,215 05
Income from sale of gas, residuals, other source Balance to profit and loss Balance June 30, 1895, Balance of gas manufactulaterest paid, Balance June 30, 1896, MARI Real estate,	P	PROPI	T AN	ELI	OSS A	Accord	COM	* * * * * * * * * * * * * * * * * * *	5,521 5,521 Dr. 3,653 111 449	95 86 53 66	\$5,006 42 396 00 8 00 111 53 \$5,521 95 Ca. \$4,215 05 \$4,215 05 \$23,845 66 23,140 22 33,257 14
Income from sale of gas, residuals, other source Balance to profit and loss  Balance June 30, 1895, Balance of gas manufactu Interest paid, Balance June 30, 1896,  MARI  Real estate, Steam plant, Electric plant, Electric lines, meters, tra		PROPI	Ount,	ELM	OSS A	Accord	COM	* * * * * * * * * * * * * * * * * * *	5,521 5,521 Dr. 3,653 111 449	95 86 53 66	\$5,006 42 396 00 8 00 111 53 \$5,521 95 Ca. \$4,215 05 \$4,215 05 \$23,845 66 23,140 22 33,257 14 33,063 33
Income from sale of gas, residuals, other source Balance to profit and loss  Balance June 30, 1895, Balance of gas manufactu Interest paid, Balance June 30, 1896,  MARI  Real estate, Steam plant, Electric plant, Electric lines, meters, tra Due for light and power,		ROU	Ount,	ELM	OSS A	Accord	COM	**************************************	5,521 Da. 3,653 111 449 4,215	95 86 53 66	\$5,006 42 396 00 8 00 111 53 \$5,521 95 Ca. \$4,215 05 \$4,215 05 \$23,845 66 23,140 22 33,257 14 33,063 33 1,041 39
Income from sale of gas, residuals, other source Balance to profit and loss  Balance June 30, 1895, Balance of gas manufactu Interest paid, Balance June 30, 1896,  MARI  Real estate, Steam plant, Electric plant, Electric lines, meters, tra		PROPI	Ount,	ELM	OSS A	Accord	COM	**************************************	5,521 Da. 3,653 111 449 4,215	95 86 53 66	\$5,006 42 396 00 8 00 111 53 \$5,521 95 Ca. \$4,215 05 \$4,215 05 \$23,845 66 23,140 22 33,257 14 33,063 33

1897.]	PU	BLI	<b>C</b> :	DO	CU	ME	NT	_ 1	No.	35.		lxx	iii
Oil and waste o	n hand	l <b>,</b> .										<b>\$</b> 25	35
Incandescent la	mps on	hand	l <b>, .</b>									112	
Globes on hand	l, .											20	60
Other materials	on har	nd, .										742	35
Sundry account	s due t	he coı	mpan	y,								471	61
Cash on hand,		•	•									2,093	80
Total assets	s, as pe	r book	ts of	the c	ompa	ıny,	•			•	•	\$118,028	11
				L	ABIL	.ltir:	3.	•					
Capital stock,		_		_		_					_	\$30,000	00
Bonds issued,		Ċ	•	•	:	:	:	:	•	•	•	40,600	
Notes payable,			•	•	•	•	•	•	:	:	•	35,400	
Unpaid bills,		:	:	:	:	:	:	:	•	•	:	333	
•				•				•	•	-			
Total liabili	lties, as	per b	ooks	of th	ie cor	npan	y,	•	•			<b>\$106,333</b>	
Profit and loss	balance	, .	•	•	•	•	•	•	•	•		11,694	78
												\$118,028	11
		:	Man	UPAC	TURI	NO A	CCOT	INT.		Dz.		Cr.	
Operating exper	1668						_		<b>\$</b> 15,		89	CH.	
Income from sa					•	:	•	•	4.0	2	-	\$20,769	67
Balance to profi	t and lo	) 588,					•		5.	374	78	<b>4-31100</b>	٠.
		,	•	-	•	•	•	•				<b>A</b> 00 800	
			On or		T	•••	ا مام		<b>\$2</b> 0,	109	0/	<b>\$20,769</b>	0/
		_	ROF	IT A	ND L	U88 A	7CCO.	UNT.		Dr.		CR.	
Balance June 30			•	•	•	•	•	•				\$10,653	
Balance of man					•	•	•	•				5,374	
Other items of it			•	•	•	•	•	•			_	310	83
Interest paid,			•	•	•	•	•	•		894			
Dividends decla			•	•	•	٠	•	•		750			
Balance June 30	, 1896,	•	•	•	•	•	•	•	11,	694	78		
									\$16,	339	32	\$16,339	32
	MAR	LBO	ROU	GН	GA8	LIC	₹HT	COM	4PAN	Y.			
					Arse	ITS.							
Real estate,				•	•	•		•	•		•	\$26,514	
Machinery and		cturir	ig ap	plian	ces,	•		•				42,897	
Street mains,		•	•	•	•		•	•	•	•		15,340	19
	• •	•	•	•	•	•	•	•	•	•	•	1,881	
· ·		•	•	•	•	•	•	•	•	•	•	3,758	
Coal on hand,		•	•	•	•	•	•	•	•	•	٠	947	
Coke on band,			•	•	•	•	•	•	•	•	•	30	
Tar on hand,	• •		•	•	•	•	٠	•	•	•	٠	577	
Purifying mater	als on	nand,	•	•	•	•	•	•	•	•	•	187	
Other materials					•	•	•	•	•	•	•	213	
Stoves on hand,			•		•	•	•	•	•	•	•	281	
Fixtures on han	a, .	•	•		•	•	•	•	•	•	•	651	
Sundry accounts					•	•	•	•	•	•	•	3,099	
Cash on hand,	• •	•	•	•	•	•	•	•	•	•	٠	1,004	86 
Total assets	, as per	book	s of t	be co	mpa	ny,		•	•		•	\$97,383	24

lxxiv	GAS	AND	ELECTRIC	LIGHT.	[Jan.

				Lia	BILI	TIRS.						
Capital stock, .												<b>\$</b> 50,000 00
Notes payable, .	•	•	•	•		•	•		•			<b>33,36</b> 9 52
Unpaid bills, .	•	•	•	•	•	•	•	•	•	•	•	2,679 64
Total liabilitie	s. as be	r boo	ks o	f the	con	nanv	_					\$86,049 16
Total liabilitie Profit and loss bal	lance.						<b>'</b> .	•	·			11,334 06
												897,383 24
		M	ANUF	ACT	URIN	o Ac	<b>co</b> u	NT.				•
0	_								_	Dr.		Cz.
Operating expense			•	•	•	•	•	•	\$	8,768	64	A10 400 97
Income from sale	or gas, luals,		•	•	•	•	•	•				\$13,490 37 1,227 90
	r source			•	•	•	•	•				1,227 90
Balance to profit a				•	:	•	•	•		5,966	99	11 20
Dalance so prone a	MU IUSB	,	•	•	•	•	•	•	_	<u> </u>		
		D _D	ABIT	4 807	. T.	88 A	1001	3.7 EP	<b>\$</b> 14	1,735	52	\$14,735 52
		FR	OFIT	AR	ט בו	988 A	COU	MT.		DR.		Cz.
Balance June 30, 1												\$4,484 79
Balance of manufa	acturing	acco	unt,									5,966 88
Other items of inc	ome,					•	•					4,410 84
Interest paid, .	•	•	•			•			8	1,882	89	
Depreciation			•		•	•	•	•		,645		
Balance June 30,	1896,	•	•	•	•	•	•	•	1	1,334	08	
									81	4,862	51	814,862 51
			_				-		•	-,		<b>V</b>
		nome						~ · · · ·				
MILFOR	ED EL	ECTI	RIC	LIG	HT	ANI	) P	OWE	R (	COMI	PAN	TY.
MILFOR	RD ELI	ecti	RIC		TH Zasz		P	OWE	RC	COMI	PAN	TY.
MILFOR	RD ELI	ecti	RIC				) P	OWE	er (	ю <b>м</b> і	PAN	FY. \$5,063 24
Real estate, . Steam plant, .			•			rs.	) P		er (	: :	PAN	
Real estate, . Steam plant, . Electric plant, .			•			rs.	•		er (	: :	PAN	<b>\$</b> 5,063 24
Real estate, . Steam plant, . Electric plant, .			•			rs.	•		er (	: : :	• • •	\$5,063 24 14,591 43 14,217 56 36,071 11
Real estate, . Steam plant, . Electric plant, . Electric lines, met Due for light and	ers, tra	nsfori	mers	and	arc	rs.	•		: : :		PAN	\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25
Real estate, . Steam plant, . Electric plant, . Electric lines, met Due for light and Fuel on hand, .	ers, tra power,	· · · · ·	mers	and	arc	rs.	•		: : :			\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25 27 00
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Fuel on hand, Carbons on hand,	ers, trai	nsfor	mers	and	arc	rs.	•		: : : :		- - - -	\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25 27 00 25 00
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Fuel on hand, Carbons on hand, Oil and waste on	ers, trai	onsform	mers	and	arc	rs.	•		:			\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25 27 00 25 00 74 50
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Fuel on hand, Carbons on hand, Oil and waste on I Incandescent lam	ters, train power, thand, ps on hs	nsform	mers	and	arc	rs.	•		:	: : : :		\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25 27 00 25 00 74 50 13 00
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Fuel on hand, Carbons on hand, Oil and waste on I Incandescent lam Globes on hand,	ers, trai power, hand, ps on hs	onsform	• • • • • •	and	arc	rs.	•		:			\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25 27 00 25 00 74 50 13 00 6 40
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Fuel on hand, Carbons on hand, Oil and waste on I Incandescent lam Globes on hand,	ers, trai power, hand, ps on hs		· mers · · ·	and	arc	rs.	•		:	: : : : :	• • • • • • • • • • • • • • • • • • •	\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25 27 00 25 00 74 50 13 00 6 40 86 50
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Fuel on hand, Carbons on hand, Oil and waste on I Incandescent lam Globes on hand,	ers, trai power, hand, ps on hs		· mers · · ·	and	arc	rs.	•				PAN	\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25 27 00 25 00 74 50 13 00 6 40 86 50
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Fuel on hand, Carbons on hand, Oil and waste on I Incandescent lam Globes on hand, Other materials on Horses, wagons, e Sundry accounts of	hand, ps on ha n hand, ductor, due the	osfori	mers	. and	arc	rs.	•				PAN	\$5,063 24 14,591 33 14,217 55 36,071 11 1,363 25 27 00 25 00 74 50 13 00 6 40 86 50 32 29 34
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Fuel on hand, Carbons on hand, Oil and waste on I Incandescent lam Globes on hand, Other materials on Horses, wagons, e Sundry accounts o Office furniture,	hand, ps on hand, atc., due the	osfori	mers	. and	arc	rs.	•		:	: : : : : : :	PAN	\$5,063 24 14,691 43 14,217 56 36,071 11 1,363 25 27 00 25 00 74 50 13 00 6 40 85 50 32 50 229 34 21 75
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Fuel on hand, Carbons on hand, Oil and waste on I Incandescent lam Globes on hand, Other materials on Horses, wagons, e Sundry accounts of Office furniture, Cash on hand,	hand, po on hand, n hand, etc., due the	onsform	mers	. and	arc	rs.	•					\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25 27 00 25 00 74 50 13 00 6 40 86 50 32 50 299 34 21 75 148 44
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Fuel on hand, Carbons on hand, Oil and waste on I Incandescent lam Globes on hand, Other materials on Horses, wagons, e Sundry accounts o Office furniture,	hand, po on hand, n hand, etc., due the	onsform	mers	. and	arc	rs.	•		: : : : : :		PAN	\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25 27 00 25 00 74 50 13 00 6 40 86 50 32 50 229 34 21 75 148 44 184 69
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Fuel on hand, Carbons on hand, Oil and waste on I Incandescent lam Globes on hand, Other materials on Horses, wagons, e Sundry accounts of Office furniture, Cash on hand,	hand, ps on hand, otc., due the	oneform	mers		Asser	lamps						\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25 27 00 25 00 74 50 13 00 6 40 86 50 32 50 299 34 21 75 148 44
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Fuel on hand, Carbons on hand, Oil and waste on l Incandescent lam Globes on hand, Other materials of Horses, wagons, e Sundry accounts of Office furniture, Cash on hand, Unexpired insura	hand, ps on hand, otc., due the	oneform	mers		Asser	lamps						\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25 27 00 25 00 74 50 13 00 6 40 86 50 32 50 229 34 21 75 148 44 184 69
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Fuel on hand, Carbons on hand, Oil and waste on l Incandescent lam Globes on hand, Other materials on Horses, wagons, Sundry accounts Office furniture, Cash on hand, Unexpired insura Total assets,	hand, ps on hand, otc., due the	oneform	mers	and	arc	lamps						\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25 27 00 25 00 74 50 13 00 6 40 86 50 32 50 229 34 21 75 148 44 184 69
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Fuel on hand, Carbons on hand, Oil and waste on I Incandescent lam Globes on hand, Other materials on Horses, wagons, Sundry accounts Coffice furniture, Cash on hand, Unexpired insura Total assets, Capital stock,	hand, ps on hand, otc., due the	oneform	mers	and	arc	lampe						\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25 27 00 25 00 74 50 13 00 6 40 86 50 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Puel on hand, Carbons on hand, Oil and waste on I Incandescent lam; Globes on hand, Other materials on Horses, wagons, e Sundry accounts Coffice furniture, Cash on hand, Unexpired insura: Total assets, a	hand, ps on hand, stc., due the	nasform	mers	and	arc	lampe						\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25 27 00 25 00 74 50 13 00 6 40 86 50 32 50 299 34 121 75 148 44 184 09 \$72,225 11
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Fuel on hand, Carbons on hand, Oil and waste on I Incandescent lam Globes on hand, Other materials on Horses, wagons, Sundry accounts Coffice furniture, Cash on hand, Unexpired insura Total assets, Capital stock,	hand, ps on hand, otc., due the	nasform	mers	and	arc	lampe						\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25 27 00 25 00 74 50 13 00 6 40 86 50 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90 32 90
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Fuel on hand, Carbons on hand, Oil and waste on l Incandescent lam Globes on hand, Other materials on Horses, wagons, Sundry accounts Office furniture, Cash on hand, Unexpired insura Total assets, Capital stock, Bonds issued, Unpaid bills,	hand, ps on hand, psc., due the nce, as per b	onsform	mers	and	Ass r	lamps						\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25 27 00 25 00 74 50 13 00 6 40 86 50 32 50 2293 34 21 75 148 44 184 09 \$72,225 11
Real estate, Steam plant, Electric plant, Electric lines, met Due for light and Puel on hand, Carbons on hand, Oil and waste on I Incandescent lam; Globes on hand, Other materials on Horses, wagons, e Sundry accounts Coffice furniture, Cash on hand, Unexpired insura: Total assets, a	hand, ps on hand, ps on hand, ptc., due the nce, as per b		mers	and	ASSE	lampa						\$5,063 24 14,591 43 14,217 56 36,071 11 1,363 25 27 00 25 00 74 50 13 00 6 40 86 50 32 50 299 34 121 75 148 44 184 09 \$72,225 11

**872,225** 11

\$22,596 77

		MAST	UFAC	TURI	MU L	LUUUI	M.F.	Dz.		CR.
Operating expenses, .		•		•			•	\$10,346	48	
Income from sale of li				•	•	•	•			<b>\$</b> 11,938
Balance to profit and	loss,	•	•	•	•	•	•	1,591	70	
								\$11,938	18	\$11,938
		Prof	T A	ND L	088	Loco	UNT.	• •		•
Dalamas Tuma 90 1005								Dr.		Cr. \$6,322
Balance June 30, 1895 Balance of manufactu				•	•	•	•			1,591
Wiring account	tring a	KCCO U I		•	•	•	•			415
Interest paid		•	•	•	•	•	•	\$1,470	00	110
Wiring account, Interest paid, Balance June 30, 1896	, . ,	:	:	:	:	:	:	6,859		
								88,329	79	\$8,329
		•								
	MILF	ORD	GA			r co	MPA	MY.		
Deel estate				A881	STB.					<b>60</b> 480
Real estate,		•	• 14	•	•	•	•	• •	•	<b>\$3,45</b> 0
Machinery and manuf			puan	ices,	•	•	•		•	64,366 31,951
Street mains, Meters,	•		•	•	•	•	•		•	2,743
'		•	•	•	•	•	•		•	2,401
Coal on hand,	•	•	•	•	•	•	•	• •	•	2,070
Coke on hand,	•	•	•	•	•	•	•	• •	•	756
Tar on hand		•	•	•	•	•	•	• •	•	750
Purifying materials or	n band	ı	•	•	•	:	•	: :	Ċ	22
Other materials on ha	nd	•, •				·				349
Stoves on hand	, .									255
Stoves on hand, . Fixtures on hand, .	•									125
Sundry accounts due t	the co	mpany	7							64
		٠. ٠	٠.							50
Cash on hand,	•		•				•			5,059
Total assets, as pe	r bool	ks of t	he o	ompa	ny,					\$114,416
			Т.т	ABILI	TT VA					
Capital stock,										<b>872,3</b> 00
Unpaid dividends, .	•	:	:	•	•	•	•		•	3,615
Depreciation fund, .			:	•	•	:	•	· ·	:	<b>35,80</b> 0
Makal 11-5-214-		•								<u></u>
Total liabilities, as							•		•	\$111,715 2.701
Profit and loss balance	, .	•	•	•	•	•	•	• •	•	2,701
		Manu	<b>-</b>	P111072	.a. A		w.			\$114,416
		MARK U	rau	· UKIN	.o A	CCOU.	M 1.	DR.		Cz.
	•									
					•	•	•	<b>\$</b> 13,389	96	
income from sale of gr	Ma, .	•	:	:	:	:	•	<b>\$</b> 13,389	96	\$20,835
Operating expenses, . Income from sale of ga residuals,	M, .	•	:	:	:	:	•	<b>\$</b> 13,389	96	1,705
Income from sale of ga	as, .		•	:	•	:	•	\$13,389 9,2 <b>6</b> 6		• .

lxxvi	GAS	AND	ELECTRIC	LIGHT.

[Jan.

			I	PROFIT	ANI	Los	8 A	.ccoun	īT.				
Dalamas I 6											D		Cr.
Balance June 3				•	•	•	•	•	•				\$1,783 05
Balance of mar						•	•	•	•				9,206 82
Jobbing accoun	1 <b>t,</b>	•	•	•	•	•	•	•	•				227 81
Dividends deck	area,	•	•	•	•	•	•	•	•	•	,230		
Depreciation,	•	•	•	•	•	•	•	•	•	1	,257		
Other items,	•	•	•	•	•	•	•	•	•	_		45	
Balance June 3	0, 189	36,	•	•	•	•	•	•	•		2,701 	<b>6</b> 6	
										\$11	,217	68	\$11,217 63
		M	ILLE	BURY	RL.	ECTI	RIC	COM	[PA]	NY.			
						.88ETE		-					
Doel oates					47	-vebit	••						
Real estate,	•	•	•	•	•	•	•	•	•	•	•	•	<b>\$4,596</b> 28
Steam plant,		•	•	•	•	•	•	•	•	•	•	•	6,311 57
Electric plant,		•	•	•	•	•	•	•	•	•	•	•	5,128 15
Electric lines,	•	•	•	•	•	•		•	•	•	•	•	14,669 60
Meters, .	•	•	•	•		•	•	•		•	•	•	684 45
Transformers,	•	•	•	•				•		•	•	•	644 15
Arc lamps,		•	•	•	•	•	•		•	•	•	•	2,340 00
Arc lamps, Due for light a Fuel on hand	nd po	we	r, .		•	•			•				1,248 00
													7 50
Carbons on har	ıd,		•	•				•					22 40
Carbons on har Oil and waste of Incandescent is Globes on hand Other material	n hai	nd,		•									3 85
Incandescent la	mps	on	hand,	, .									90 54
Globes on hand	i, ["]												4 51
Other material	s on l	han	d, .										209 52
Tools, .			٠.										106 50
Office furniture													63 40
Cash on hand,												•	163 22
Insurance, .	•	•	•	•	•	•	•		•			•	75 <b>69</b>
Total asset	s, as	per	book	s of th	e cor	npany	у,					•	<b>\$36,369 33</b>
				]	Liab	ILITI	B8.						
Capital stock,			•			_		_					\$17,000 00
Bonds issued,				-					-		·	•	16,000 00
Notes payable,			•			•	•	•			•	•	700 00
Unpaid bills,		•	•	•		•		•	•	•	•	•	252 96
Interest due bu		pa	id,			•		•		•	:	·	247 00
Total lists	litio-		no= -	ook	d al-	<b></b>							<b>624 100 6</b> 2
Total liabi						_		γ,	•	•	•	•	<b>\$</b> 34,199 <b>\$</b> 5
Profit and loss	DSTRI	100,	•	•	•	•	•	•	•	•	•	•	2,169 38
			1	Manur	ACTI	URING	3 A	CCOUN	т.				<b>\$</b> 36,3 <b>6</b> 9 <b>33</b>
											Dr.		Ca.
Operating expe				•	•	•			•	84	i,110	00	
Income from se	ale of	lig	ht an	d powe	er,								<b>\$5,</b> 877 87
			rces,										34 00
Balance to prof	lit and	d lo	988,							1	,801	87	
•													
										85	5,911	87	<b>\$5,9</b> 11 87

## 1897.] PUBLIC DOCUMENT— No. 35. lxxvii

		P	ROF1	T AND	L	088 A	<b>Lc</b> coi	INT.		_	0-	
Balance June 3	n 1805								D	R.	Cn. \$1,382	35
Balance of man		na sa	·		•	•	•	•			1,801	
Interest receive	imiacimi i	ש מני	COUL	٠, ٠	•	•	•	•			•	80
Interest receive Wiring and lan	nn sales.	•	•	•	•	•	•	•			21	
Interest paid,		•	•	•	•	•	•	•	<b>£</b> 1.0	37 95		•
Balance June 3	0. 1896.		•		:		٠.			59 38		
	-,,		•	•	•	_	•	-				_
			_						<b>\$</b> 3,20	7 33	<b>\$</b> 3,207	38
	MILTO	I NO	LIGH	T Al	ND.	POV	VER	CO	MPANY	<b>7.</b>		
				A	88 E	тв.						
Real estate,											<b>\$</b> 15,849	10
Steam plant.								•			18,377	
Electric plant,				•		•	•				15,058	
Electric lines, 1											36,201	
Due for light a	nd power	Γ, .									2,527	
Fuel on hand, Oil and waste o											15	00
Oil and waste o	n hand,										50	00
Incandescent la Other materials	mps on l	band,									75	00
Other materials	on hand	l, .	•								200	
Horses, wagons	, etc.,	•				•					75	00
Office furniture	•		•		•		•	•		•	78	
Cash on hand,		•	•	•	•	•	•	•		•	728	33
Total asset	s, as per	book	s of t	he co	mpe	ny,	•	•		•	\$89,230	64
				T		ITI E8						
On when 1 and 31				LIA.	BIL	TTLES	•				<b>0</b> 40 000	•
Capital stock,		:	•	•	•	•	•	•		•	\$42,000	
Bonds issued,	• •	•	•	•	•	•	•	•		•	30,000	
Notes payable, Unpaid bills,	• •			•	•	•	•	•		•	11,590 2,201	
Onpaid oms,	• •	•	•	•	•	•	•	•		•	2,201	00
Total liabil	ities, as p	per be	oks	of the	con	npan	у,.				<b>\$</b> 85,792	88
Profit and loss	balance,			•							3,437	76
											\$89,230	64
		1	<b>ANU</b>	PACTU	RIP	G A	ccou	NT.				
0									Di		Cr.	
Operating expen			. •	•	•	•	•	•	\$10,47	6 24	<b>611</b> 010	**
Income from sa	de of ligh	it and	1 pow	er,	•	•	•	•			\$11,810	98
Balance to profi	t and los	8,	•	•	•	•	•	•	1,33	4 34		
									\$11,81	0 58	\$11,810	58
		P	ROPI	r and	Lo	88 A	ccou	NT.				
									Di		Cr.	
Balance June 30			•	•	•		•	•	\$81	9 34		
Balance of man	ufacturin	g acc	ount	, .	•	•	•	•			\$1,334	
Real estate reva	iuation,	• .	•	•	•	•	•	٠		• ••	5,037	40
interest paid,		•	•	•	•		•	•		6 20		
Other items,	1000	•	•	•	•	•	•	•	-	3 44		
Balance June 30	, 1896,	•	•	•	•	•	•	•	3,43	76		
									26.37	74	26,371	74

### NANTUCKET ELECTRIC COMPANY.

	MAI	110	CAL	ı E	LLEC	, 1 ICI		UMF.	WN I	•		
					Asse	TS.						
Real estate,												\$200 00
Steam plant,												4,820 00
Electric plant,												8,000 00
Electric lines, r	neters, tra	ınsfo	rme	s an	d arc	lam	08,					12,040 00
Due for light at Fuel on hand,	nd power,						•					93 45
Fuel on hand,	• •											959 76
Carbons on har	ıd, .											62 21
Oil and waste o	on hand,											41 45
Incandescent la	mps on h	and,										77 16
Globes on hand	l, .	•										25 87
Other materials	on hand,											87 20
Office furniture												75 00
Cash on hand,					•							288 38
	•											
Total asset	s, as per	000K	s or	the c	ompe	ıny,	•	•	•	•	•	<b>\$26,770 47</b>
•				Lı.	ABIL	ITI ES	•					
Capital stock,				•	•	•	•	•	•		•	<b>\$25,000 00</b>
Total liabil	lities es n	or h	n ka	of th		n ne n	₩					\$25,000 00
Profit and loss						-	-		•	•	•	1,770 47
1 10110 8110 1088	oalance,	•	•	•	•	•	•	•	•	•	•	
		_	_									\$26,770 47
		1	IANI	. LYC.	TURN	NG A	ccor	NT.		Dr.		Cz.
Operating expe	ngeg								•!	5,850	KΛ	CE.
Income from sa			i Inov	FAT	•	•	•	•	Φ.	,,,,,,,,,	•	<b>26,976</b> 89
Balance to prof	at and los	. au	ı pov	, or ,	•	•	•	•	,	1,126	80	\$0,510 W
Datation to pro-	10 6114 106	٠,	•	•	•	•	•	•				
		_			_				\$6	3,976	89	<b>\$6,976 89</b>
		P	ROP	T AD	to L	08 <b>8</b> A	7CGO1	UNT.		Dr.		Ca.
Balance June 3	0. 1895.	_						_		DE.		\$1,252 16
Balance of man		17 864	Sonnt		•	•	·	•				1,126 39
Interest receive	d.	<b></b>		, .	•	•		•				9 27
Rents, .		•	:	•	•	•	•	•				160 00
Dividends decla	· ·	•	•	•	•	•	•	•		<b>875</b> 0	00	100 00
Wiring	<b></b>	•	•	•	•	•	•	•	,	27		
Wiring, . Balance June 3	0 1898	•	•	•	•	•	•	•	1	1.770		
Durance vane o	0, 1000,	•	•	•	•	•	•	•			<del></del>	
			_						\$2	,547	82	\$2,547 82
	NAN	TUC	CKE	T G	AS I	LIGH	IT C	OMP	ANY	7.		
								_	_			
Dool antata				4	A88E	T8.						es 000 00
Real estate,	• •	•	•			•	•	•	•	•	•	<b>\$3,000 00</b>
Machinery and		arın	g ap	pnan	œs,	•	•	•	•	•	•	20,000 00
Street mains,		•	•	•	•	•	•	٠	•	•	•	9,540 53
Meters, .		•	•	•	•	•	•	•	•	•	•	4,000 00
Due for gas,		•	•	•	•	•	•	•	•	•	•	170 43
Coal on hand,		:	•	•	•	•	•	•	•	•	•	769 85
Coke on hand,		•	•	•	•	•	•	•	•	•	•	5 00
Tar on hand,		•	•	•	•	•	•	•	•	•	•	13 50
Cash on hand,		•	•	•	•	•	•	•	•	•	•	55 80
Investments,	• •	•	•	•	•	•	•	•	•	•	•_	368 00
Total asset	s, as per t	ook	of t	he c	ompa	ny,						\$37,923 11

				L	BIL	TIES.					
Capital stock,											<b>83</b> 6,000 00
Notes payable,					:						1,000 00
Total liabili								•		•	<b>\$</b> 37,000 00
Profit and loss b	alance,	•	•	•	•	•	•	•		•	923 11
											\$37,923 11
		N	LANU	PAC1	re <b>ri</b> :	ko A	ccou	NT.	_		•
Onemeting amount									Dr.	90	Cz.
Operating expen			•	•	•	•	•	•	<b>\$</b> 3,779	20	84,252 90
Income from sal			•	•	•	•	•	•			• •
	iduals,		•	•	•	•	•	•			160 55
	her source	•	•	•	•	•	•	•	600	48	46 20
Balance to profit	and los	в,	•	•	•	•	•	٠	680	10	
									84,459	65	\$4,459 65
		P	ROPI	T AN	d L	880	CCO	UNT.	•••		
Dalamas Imms 90	1008								Dr.		Cr. <b>\$364</b> 61
Balance June 30 Balance of man			•	. •	•	•	•	•			680 45
					•	•	•	•	\$112	<b>E</b> 0	000 40
Interest paid,	• •	•	•	•	•	•	•	•	•	45	
Other items,		•	•	•	•	•	•	•			
Balance June 30	, 1896,	•	•	•	•	•	•	•	923	11	
							•		\$1,045	06	\$1,045 06
			-								
	NAT	rick	· GA	g t	.TG F	TT C	'OMI	PANY			
	2122		. 021		JI O 1.		Olu	2211	•		
				A	88 BT	8.					
Real estate,											\$16,670 38
Machinery and	manufac	turin	g ap	olian	C68,						6,330 00
Street mains,			•	•				•			15,254 87
											2,564 71
Due for gas,											2,273 24
Coal, coke, tar,	enrichere	and	pari	fyin		terial	s on	hand,			1,626 40
Other materials	on haud,	, pipe	and	fitti	ugs,						1,654 50
Sundry accounts	due the	com	pany	, .							2,982 05
Office furniture,			•	•							195 64
Cash on hand,											171 01
Insurance,											31 25
Total assets	, as per	DOOK	8 OI 1	ne c	omp	ıny,	•	•		•	\$49,754 05
				Lı	ABIL	ITI B8	<b>.</b>				
Capital stock,											<b>\$20,000 00</b>
Notes payable,											13,785 00
Unpaid bills,											1,527 96
-											
Total liabili								•	• •	•	<b>\$35,312</b> 96
Profit and loss l	balance,	•	•	•	•	•	•	•		•	14,441 09
											849,754 06
		1	TANT	PAC	TURI	NG A	ccot	J <b>NT.</b>			- •
0 - 4									Di		Cz.
Operating exper	•	•	•	•	•	•	•	•	\$5,636	67	
Income from sa		•	•	•	٠	•	•	•			\$5,591 85
	iduals,	•	•	•	•	•	•	•			914 57
Balance to profi	t and los	8,	•	•	•	•	•	•	869	75	
									\$6,500	5 42	\$6,506 42
									,_		<b>4</b> -,

•				
ı	v	v	٦	•

# GAS AND ELECTRIC LIGHT. [Jan.

		1	Propi	r an	ъL	088 A	.cco	UNT.				
Dalamas Tomas	00 1005									Dr.		Cr.
Balance June 8			•		•	•	•	•				\$13, <b>9</b> 61 95
Balance of man					•	•	•	•				869 75
Other items of			•	•	•	•	•	•	_			<b>63</b> 62
Interest paid,			•	•	•	•	•	•	•		23	
Balance June 3	80, 1896,	•	•	•	•	•	•	•	14,	,441	09	
									\$14	895	32	<b>\$14,895</b> 32
			_		_		_		<b>V</b>			<b>V</b>
	NT 4 (F)		340		. 13		DIC		34D 4 3	TT7		
	NAII	UK (	JAO A	MU	, в	LECT	KIC		MPAI	NI.		
				_	188 E							
Real estate, st				-	•			96, N	eters,	tra	ns-	
formers and			•	•	•	•	•	•	•	•	•	<b>\$</b> 139,421 <b>8</b> 0
Due for light a			•	•	•	•	•	•	•	•	•	3,487 62
Incandescent la				•	•	•	•	•	•	٠	•	157 34
Horses, wagons	s, etc.,	•	•	•	•		•	•	•		•	112 50
Sundry accoun	ts due ti	he con	ap <b>any</b>	,	•	•	•	•	•		•	1,446 01
Cash on hand,					•	•	•	•	•		•	927 87
Advanced taxe	s and in	suran	œ,		•	•	•		•		•	900 00
Total asset		- hook	a of th	A 601	mna	กษ						\$146,453 14
10001 00000	o, as por	OOOR		· ·	ıı þe	u,,	•	•	•	•	•	Ø110,100 II
				T								
Claudeal seash				LIA	RIL	TIBS.						ee0 000 00
Capital stock,		•	•	•	•	•	•	•	•	•	•	\$62,000 00 57,000 00
Bonds issued,		•	•	•	•	•	•	•	•	•	•	57,000 00
Notes payable,		•	•	•	•	•	•	•	•	•	•	20,812 12
Unpaid bills,		•	•	•	•	•	•	•	•	•	•	5,361 86
Total liabil	ities, as	per bo	oks o	f the	con	npany	, .					\$145,173 98
Profit and loss						•						1,279 16
												0146 459 14
			Manu	PAC1	ruri	NG A	CCOT	JNT.				\$146,453 14
										Dr.		Cr.
Operating expen			•	•	•	•	•	•	\$17,	884	83	
Income from sa					•	•	•	•				<b>\$</b> 25,478 <b>9</b> 9
Balance to profi	t and lo	88,	•	•	•	•	•	•	7,8	594	16	
									825,	178	99	\$25,478 99
		P	ROPIT	ANT	Lo	88 A	COU	NT.	• •			
Balance of man	n fo atm -1.	n <i>a</i>	mm*							DR.		Cm. 87,594 16
				•	•	•	•	•				645 00
Other items of it			•	•	•	•	•	•	<b>\$3,</b> 2	40	^	030 00
Interest paid, Dividends decla		•	•	•	•	•	•	•		720		
Balance June 30	. 100c	•	•	•	•	•	•	•	-	279		
Dalance June at	, 1080,	•	•	•	•	•	•	•				
							_		<b>\$8,</b>	239	16	<b>\$8,239</b> 16
NEW	BEDFO	DRD (	GAS	AN	D E	EDISC	)N	LIGI	нт с	OM	PAI	NY.
					SET							
Real estate (gas	a)	_		. As	roman All			_			_	<b>\$</b> 168,844 67
Machinery and					pg //	788)		-	•	•	•	32,957 94
Street mains an					- (§	,,	•	•	•	•	•	144,524 46
Public lamps (g			-/,	•	:	•		•	•	•	•	1,800 00
Meters (gas),			•	•		•	•		:	•	•	17,774 32
Due for gas,		:		•	•	•	•	•	•	•	•	6,286 97
TOTO IOI. Rare!	• •	•	•	•	•	•	•	•	•	•	•	U)40U VI

1897.]	PUB	LIC	D	OC	UM	E	NT-	_ 1	ło.	35.		lxxxi
Gas coal on hand	d											<b>\$3,180 35</b>
Coke on hand,	-, ·				-			•		-		700 00
Tar on hand,												278 40
Enrichers on ha	nd			-		-	•					318 75
Purifying mater	ials on I	hand.					·					433 00
Other gas mater	lals on l	hand.	•	•	-	·		-	•	•	·	8,858 97
Enrichers on has Purifying mater Other gas mater Stoves on hand, Gas and electric			-				•					
Gas and electric	fixtures	on ha	nd.						·		•	3,228 88
Real estate (elec	tric).											60,056 85
Steam plant (ele	etric).						_					101,267 80
Electric plant.												124,230 41
Electric plant, Electric lines,												123,455 12
Meters (electric)												7,830 04
Patent rights,												10,000 00
Due for electric	light an	d powe	г.									7,899 18
Fuel on hand (e											٠.	1,863 43
Carbone on hand	4										:	•
Oil and waste or Incandescent lar Globes on hand, Other electric ma Motors on hand,	hand.								·			54 30
Incandescent lar	nps on	band.										
Globes on hand.												724 31 507 13
Other electric m	aterials	on han	d.									9,554 11
Motors on hand		•	-,									7,716 06
morses, wagons.	etc		•									704 15
Sundry accounts	due th	e comp	any.									13,736 21
Office furniture,			. •									1,470 14
Cash on hand,												•
Notes receivable												624 01
Investments,									:			31,505 29
Total assets	, as per	books	of th					•	•	•	•	<b>\$897,424</b> 16
					ARILI	TII	88.					
Capital stock, Notes payable,			•									<b>\$</b> 550,000 00
Notes payable,						•					•	189,200 00
Unpaid bills,		•		•	•	•	•	•		•	•	5,644 14
Deposits, .			•	•	•	•	•	•	•	•	•	1,740 31
Interest due but	not paid	d, .	•	•	•	•	•	•			•	2,646 63
Unpaid bills, Deposits, Interest due but Depreciation fun	id, .	•	•	•	•	•	•	•	•	•	•	2,646 63 30,643 24
	_	_	_									
Total liabili	ties, as	per boo	ks 0	the	com	paı	ny,	•	•	•	•	\$779,879 32
Total liabili Profit and loss b	alance,	•	•	•	•	•	•	•	•	•	•	117,544 84
												8897,424 16
		M	ANUF	ACT	URIN	G /	Accou	NT.				<b>Q</b> 001,122 10
										Dr.		Cr.
Operating expen	ses, } 8	zas,	•	•	•	٠		•	\$1	1,412	18	
	, ,	electric,		•	•	٠	•	•		4,038	40	***
Income from sal	_		•	•	•	•	•	•				\$80,644 82
	lduals,	• ,	•	•	•	•	•	•				8,655 14
	er sour			•	•	•	•	•				777 03
	e of elec	_		-	wer,	•	•	•				89,241 00
	er sour			),	•	•	•	•	_			2,394 96
Balance to profit	and lo	88, } g		•	•	•	•	•		18,664		
- ,		( e)	ectri	c,	•	•	•	•	ì	37,597	Ðб	
									\$18	31,712	95	\$181,712 95

\$158,365 td

			Prop	IT A	ND T	OR9	Acco	IIN'T				
,			LEUF		ND L	088	AUU	UNI.		Dr.		CR
Balance June 30, 18	895,		•			•	•					<b>\$</b> 89,211 62
Balance of gas mar							•					<b>38,6</b> 64 81
Balance of electric	manı	ıfac	turing	acc	ount,	•						37,597 56
Rents,		•	•	•		•	•	•				436 46
Jobbing accounts,		•	•	•	•	•	•					2,787 77
Other items of inco	me,	•	•	•		•		•				489 72
Interest paid, .		•	•	•	•	•		•	•	9,162		
Dividends declared,	, .	•	•	•	•	•	•	•	5	3,000		
Depreciation, .	•	•	•	•	•	•	•	•		2,081		
Depreciation fund,			•	-	•	•	•	•		7,399		
Balance June 30, 18	96,		•	•	•	•	•	•	11	7,544	84	
									\$16	9,187	94	\$169,187 94
NEWB	URY	PO	RT (	3A8	ANI		LECT	rric	co co	MPA	NY	
Real estate (gas),					4100 E							81,132 43
Machinery and man					ocos (	PRA)		•	•	•	•	75,000 00
Street mains (gas),				aı	ا) صد.	5 <del></del> /		•	•	•	•	2,705 34
Meters (gas),		•	•	•	•	•	•	•	•	•	•	1,598 00
Due for gas,	•	•	•	•	•	•	•	•	•	•	•	2,281 52
Gas coal on hand,	•	:	:	:	:	:	·	:	Ċ	:	:	2,714 25
-	:	:		:	·	·	·	•	•	•	•	87 50
	· z mai		la and	I oth				s on	hand		•	226 35
Enrichers, purifying Gas fixtures on hand	,	~			or Bee					•	:	79 67
Real estate.	٠,	•	•	•	•	•	•	•	•	•	•	,, ,
Steam plant,	_	_						_				60,000 00
Electric plant,	•	•	•	•	•	•	•	•	•	•	•	00,000
Electric lines, .			_								_	3,889 82
Arc lamps.		:	•	:	•	-	•	•		•	•	4,352 26
Due for electric ligh		DO:	wer.						:	:	•	1,005 25
Fuel on hand (electronic light	ric).		,			-		-	•	•	•	58 40
		-		•		-		-		·	·	145 00
Oil and waste on ha											-	25 06
Globes on hand.			·							•	:	80 40
Other electric materi		n h	and.								:	147 50
Horses, wagons, etc.										-	-	210 00
Sundry accounts du	e the	COI	n Dan Y									1,351 83
Sundry accounts due Cash on hand, .	•		•	<b>.</b>					•			1,275 03
Total assets, as	per b	ook	s of ti	he co	mpar	ıy,						\$158,365 63
Comital steels				Lil	ABILI	IIEB	•					<b>6140 000 00</b>
Capital stock, .	•	•	•	•	•	•	•	•	•	•	•	\$140,000 00
Notes payable, .	•	•	•	•	•	•	•	•	•	•	•	1,000 00
Unpaid bills, .	•	•	•	•	•	•	•	•	•	•	•	226 81 203 00
Unpaid dividends,	•	•	•	•	•	•	•	•	•	•	•	203 00
Total liabilities,	as pe	er b	ooks c	of th	e con	pan	y,					\$141,429 81
Profit and loss balan							•					16,935 12
												<del></del>

			D	O				-	10.	<i>5</i> 0.		lxxxiii
		M	ANUI	PAC1	rurii	10 A	/coop	NT.		Dr.		. <b>Ca.</b>
0	(6	zas,							\$1	1,304	79	
Operating exp	enses, { e	lectric	,						10	0,427	20	
Income from s	ale of gas	٠, .		•	•	•	•	•				\$16,853 26
r	esiduals, ale of ele	•	•	•	•	. •	•	•				1,892 17
8	ale of ele	ctric li	ght a	ınd	powe	r,	•	•		7,440	04	15,367 89
Baiance to proi	fit and los	s,	<b>,</b>	•	•	•	•	•		1, <del>94</del> 0 1,940		
•		( 616	ctric	•	•	•	•	•		*,520	_	
		_							<b>\$</b> 34	1,113	<b>32</b>	<b>\$</b> 34,113 32
		PR	OPIT	. VN	D LC	88 /	Accou	JNT.		Dr.		Cn.
Balance June	30, 1895,											<b>\$11,884</b> 22
Balance of gas	manufac	turing	BCC0	unt	, .			•				7,440 64
Balance of ele	ctric man	ufactu	ring	acc	ount,		•	•				4,940 69
Other items of	income,	•	•		•	•	•	•				17 10
Interest paid,		•	•	•	•	•	•	•		<b>8</b> 245		
Dividends decl			•	•	•	•	•	•		7,000 101		
Other items,			•	•	•	•	•	•		3 <b>.93</b> 5		
Balance June 8	30, 1896,	. •	•	•	•	•	•	•	_		_	
			_						<b>\$</b> 2	4,282	65	\$24,282 65
NEV	VTON A	ND W	7AT	RR'	row	N (	3A8	LIGI	TH (	COM	PAN	īY.
1423	1 1011 11	.,,										
					A88E							<b>358,762</b> 22
Real estate (gr Machinery and	88), ·			lien		maa)	•	•	•			68,355 54
Street mains (	woo) Timmiiniise	star ing	app	ııeu.	· ·	5 <del>40</del> ,	, .	·				133,047 77
Meters (gas),	gas), .	•	•	:		-						12,882 66
		-				•	•	•				
DIE FOT PRE.						:	:	:				32,756 09
Due for gas, Gas coal on ha						:	•	:	:	:	:	1,718 35
Due for gas, Gas coal on ha Coke on hand,	nd,	:	•			:	•	:	•	:	•	1,718 35 330 00
Coke on hand, Tar on hand.	and,	•		:	· · ·	:	•	:	· ·	•		1,718 35 330 00 2,500 00
Coke on hand, Tar on hand.	and,			:	· · ·	:	•	•	•	•	:	1,718 35 330 00 2,500 00 642 03
Coke on hand, Tar on hand, Enrichers on h	and,	hand.	•	•	· · ·	:	•	:	•			1,718 35 330 00 2,500 00 642 03 50 00
Coke on hand, Tar on hand, Enrichers on h Purifying mate Other gas mate	and, nand, erials on l	hand,	•	•	· · ·		•		•	•		1,718 35 330 00 2,500 00 642 03 50 00 780 00
Coke on hand, Tar on hand, Enrichers on h Purifying mate Other gas mate Stoves on hand	and, nand, erials on l erials on l	hand,	•		· · ·	:	•		•			1,718 35 330 00 2,500 00 642 03 50 00 780 00 939 80
Coke on hand, Tar on hand, Enrichers on h Purifying mate Other gas mate Stoves on hand Gas fixtures of	nand, nand, erials on ler	hand,	•	•								1,718 35 330 00 2,500 00 642 03 50 00 780 00 989 80 77 00
Coke on hand, Tar on hand, Enrichers on h Purifying mate Other gas mate Stoves on hand Gas fixtures of	nand, nand, erials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on ler	hand,	•	•	· · ·							1,718 35 330 00 2,500 00 642 03 50 00 780 00 989 80 77 00 24,852 47
Coke on hand, Tar on hand, Enrichers on h Purifying mate Other gas mate Stoves on hand Gas fixtures of	nand, nand, erials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on ler	hand,	•	•								1,718 35 330 00 2,500 00 642 03 50 00 780 00 989 80 77 00
Coke on hand, Tar on hand, Enrichers on h Purifying mate Other gas mate Stoves on hand Gas fixtures of Real estate (el Steam plant (e Electric plant,	and, erials on lerials on ld, n hand, ectric),	hand, hand,		•								1,718 35 330 00 2,500 00 642 03 50 00 780 00 939 80 77 00 24,852 47 38,614 17 26,206 90 58,218 43
Coke on hand, Tar on hand, Enrichers on h Purifying mate Other gas man Gas fixtures of Real estate (el Steam plant (e Electric plant, Electric lines,	and, erials on lerials on ld, n hand, ectric),	hand, hand,		•								1,718 35 330 00 2,500 00 642 03 50 00 780 00 939 80 77 02 24,852 47 38,614 17 26,206 90 58,218 43 4,036 99
Coke on hand, Tar on hand, Enrichers on h Purifying mate Other gas mate Stoves on hand Gas fixtures of Real estate (el Steam plant (e Electric plant, Electric lines, Meters (electri	and, nand, erials on lerials on ld, n hand, ectric), electric),	hand, hand,	•	•								1,718 35 330 00 2,500 00 642 03 50 00 780 00 939 80 77 02 24,852 47 38,614 17 26,206 90 55,218 43 4,036 99 12,264 40
Coke on hand, Tar on hand, Enrichers on h Purifying mat Other gas mat Stoves on hand Gas fixtures on Real estate (el Steam plant (e Electric plant, Electric lines, Meters (electric Transformers, Arc lamps.	and, nand, nand, erials on lerials on ld, n hand, ectric), electric), ic),	hand, hand,										1,718 35 330 00 2,500 00 642 03 50 00 780 00 780 00 24,852 47 38,614 17 26,206 90 58,218 43 4,036 99 12,264 40 6,435 00
Coke on hand, Tar on hand, Enrichers on h Purifying mate Other gas mate Stoves on hand Gas fixtures on Real estate (el Steam plant (e Electric plant, Electric lines, Meters (electric Transformers, Arc lamps, Due for electric	and,	hand, hand,	· · · · · · · · · · · · · · · · · · ·									1,718 35 330 00 2,500 00 642 03 50 00 780 00 780 00 24,852 47 38,614 17 26,206 90 58,218 43 4,036 99 12,264 40 6,435 00 10,596 41
Coke on hand, Tar on hand, Enrichers on h Purifying mate Other gas mate Stoves on hand Gas fixtures on Real estate (el Steam plant (e Electric plant, Electric lines, Meters (electric Transformers, Arc lamps, Due for electric Fuel on hand	and,	hand, hand,	· · · · · · · · · · · · · · · · · · ·									1,718 35 330 00 2,500 00 642 03 50 00 780 00 780 00 24,852 47 88,614 17 26,206 90 53,218 43 4,036 99 12,264 40 6,435 00 10,596 41 525 00
Coke on hand, Tar on hand, Enrichers on h Purifying mate Other gas mate Stoves on hand Gas fixtures of Real estate (el Steam plant (e Electric plant, Electric lines, Meters (electri Transformers, Arc lamps, Due for electri Fuel on hand Carbons on ha	and,	hand, hand,	· · · · · · · · · · · · · · · · · · ·									1,718 35 330 00 2,500 00 642 03 50 00 780 00 939 80 77 00 24,852 47 38,614 17 26,206 90 58,218 43 4,036 99 12,264 40 6,435 641 525 00 1,504 00
Coke on hand, Tar on hand, Enrichers on h Purifying mate Other gas mate Stoves on hand Gas fixtures of Real estate (el Steam plant (e Electric plant, Electric lines, Meters (electri Transformers, Arc lamps, Due for electri Carbons on ha Oil and waste	and,	hand, hand,	· · · · · · · · · · · · · · · · · · ·									1,718 35 330 00 2,500 00 642 03 50 00 780 00 939 80 77 00 24,852 47 38,614 17 26,206 90 58,218 43 4,036 99 12,264 40 6,435 01 1,504 00 53 00
Coke on hand, Tar on hand, Enrichers on h Purifying mate Other gas mate Stoves on hand Gas fixtures of Real estate (el Steam plant (e Electric plant, Electric lines, Meters (electri Transformers, Arc lamps, Due for electri Fuel on hand Carbons on ha Oil and waste el Incandescent l	and,	hand,	· · · · · · · · · · · · · · · · · · ·									1,718 35 330 00 2,500 00 642 03 50 00 780 00 939 80 77 00 24,852 47 38,614 17 26,206 90 58,218 43 4,036 99 12,264 40 6,435 00 1,504 00 53 00 501 17
Coke on hand, Tar on hand, Tar on hand, Enrichers on h Purifying mat Other gas mat Stoves on hand Gas fixtures on Real estate (el Steam plant (e Electric lines, Meters (electri Transformers, Arc lamps, Due for electri Fuel on hand Carbons on ha Oil and waste Incandescent l Globes on han	and,	hand,	· · · · · · · · · · · · · · · · · · ·									1,718 35 330 00 2,500 00 642 03 50 00 780 00 939 80 77 00 24,852 47 38,614 17 26,206 90 58,218 43 4,036 99 12,264 40 6,435 01 1,504 00 53 00
Coke on hand, Tar on hand, Enrichers on hand, Enrichers on hand Other gas mate Stoves on hand Gas fixtures on Real estate (el Steam plant (e Electric lines, Meters (electri Transformers, Arc lamps, Due for electri Fuel on hand Carbons on ha Oil and waste Incandescent l Globes on hand Other electric i	and,	hand,	· · · · · · · · · · · · · · · · · · ·									1,718 35 330 00 2,500 00 642 03 50 00 780 00 939 80 77 00 24,852 47 38,614 17 26,206 90 58,218 43 4,036 99 12,264 40 6,435 00 1,596 41 525 00 1,504 00 531 00 501 17 16 36
Coke on hand, Tar on hand, Enrichers on h Purifying mat Other gas mate Stoves on hand Gas fixtures on Real estate (el Steam plant (e Electric lines, Meters (electric Transformers, Arc lamps, Due for electri Fuel on hand Carbons on ha Oil and waste el Incandescentan Other electric il Horses, wagon	and,	hand,  d power  hand,  on han										1,718 35 330 00 2,500 00 642 03 50 00 780 00 989 80 77 00 24,852 47 88,614 17 26,206 90 58,218 43 4,036 99 12,264 40 6,435 00 10,596 41 525 00 1,504 00 53 00 501 17 16 36 2,093 33
Coke on hand, Tar on hand, Enrichers on h Purifying man Other gas man Stoves on hand Gas fixtures on Real estate (el Steam plant (e) Electric lines, Electric lines, Arc lamps, Due for electri Fuel on hand Carbons on ha Oil and waste Incandescent an Other electric it Horses, wagon Sundry account	and,  anand,  arials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lectric),  ce light an (electric),  nd,  on hand, amps on lend, amps on lend,  materials us, etc.,  ats due the	hand, hand, hand hand, hand, hand, hand,										1,718 35 330 00 2,500 00 642 03 50 00 780 00 780 00 24,852 47 38,614 17 26,206 90 58,218 43 4,036 99 12,264 40 6,435 00 10,596 41 525 00 53 00 501 17 16 36 2,093 33 1,509 10 6,075 40 634 34
Coke on hand, Tar on hand, Enrichers on h Purifying mat Other gas mate Stoves on hand Gas fixtures on Real estate (el Steam plant (e Electric lines, Meters (electric Transformers, Arc lamps, Due for electri Fuel on hand Carbons on ha Oil and waste el Incandescentan Other electric il Horses, wagon	and,  anand,  arials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lerials on lectric),  ce light an (electric),  nd,  on hand, amps on lend, amps on lend,  materials us, etc.,  ats due the	hand, hand, hand hand, hand, hand, hand,										1,718 35 330 00 2,500 00 642 03 50 00 780 00 780 00 24,852 47 88,614 17 26,206 90 58,218 43 4,036 99 12,264 40 6,435 00 10,596 41 525 00 1,504 00 53 00 501 17 16 36 2,033 33 1,509 10 6,075 40

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# lxxxiv GAS AND ELECTRIC LIGHT.

			LIA		ri es.					
Capital stock,										\$250,000 00
Bonds issued										96,000 00
Notes payable										17,927 74
Capital stock, Bonds issued,										14,320 22
Deposits										242 00
Unpaid dividends.										1,544 00
Interest due but not p	aid.									2,137 50
Reserved fund,										27,735 00
Total liabilities, a							٠		•	\$434,906 46
Profit and loss balance	е, .	•	•	•	•	•	•		•	87,041 74
		36								\$521,948 20
		MANU	PACTI	ZRIN	O A	ccov:	NT.	r	P.	CB.
O	(gas.							\$117,6		-
Operating expenses,	elect	ric.							13 53	
Income from sale of g	88.				:			,-		<b>\$</b> 126,518 69
residual	,, . B.	·								20,449 69
other so	•		•	•	•	•	•			3,461 26
sale of e	lactri	light s	nd n	Ower		•	•			48,531 34
		(			, •	•	•	32,7	DR 12	20,001 01
Balance to profit and	loss,	electi			•	·	·	•	17 81	
		· CICCLI	10,	•	•	•	•			
		PROFIT	r ani	Lo	88 <i>A</i>	ccot	NT.	\$198,9	60 98	\$198,960 98
								D	R.	Cr.
Balance June 30, 1895		•	•	•	•	•	•			<b>2</b> 68,288 <b>39</b>
Balance of gas manuf						•	•			32,798 13
Balance of electric ma		turing	accor	ınt,	•	•	•			9,317 81
Interest received, .		•				•				715 62
Rents,			•	•		•				1,644 00
Other items of incom-	θ, .		•		•					13 50
Other items of incom Interest paid, Dividends declared,			•	•		•		<b>\$5,3</b>	70 60	
Dividends declared, .		•					•	20,0	00 00	
Repairs real estate, Balance June 30, 1896								3	65 II	
Balance June 30, 1896	3, .							87,0	41 74	
								91127	77 45	\$112,777 45
		-				_		Ф112, <i>1</i>	(1 <del>1</del> 0	\$112,111 to
NO	RTH	ADA	MS G	AS	LIC	нт	CO	MPANY	7.	
			A	Z88E	T8.					
Real estate (gas),	_					_	_			\$15,000 00
Machinery and manu			nliena	eg (	rge)	•	•	•	· ·	21,000 00
Street mains (gas),							•	•	• •	16,000 00
Meters (gas),			•	•	•	•	•	•	• •	6,290 00
Due for cas	•	•	•	•	•	•	•	•	• •	3,220 47
Ges cost on hend		•	•	•	•	•	•	•	• •	1,400 (0)
Due for gas, Gas coal on hand, Tar on hand,		•	•	•	•	•	•	•		300 (0)
Tar on hand, Enrichers on hand, Stoves and gas fixtur	•	•	•	•	•	•	•	•		591 30
Stoves and gas fixtur	ea or	hand	•	•	•	•	•	•	• •	1,630 07
Doel octate (electric)	69 OII	uanu,	•	•	•	•	•	•	• •	7,000 00
Real estate (electric)		•	•	•	•	•	•	•		17,000 00
Steam plant (electric) Electric plant, Electric lines, transfo Meters (electric),	, .	•	•	•	•	•	•	•		15,000 00
Electric piant,	•		, .a. la		•	•	•	•	• •	OC 000 (t)
Meters (classical)	rmers	and ar	C IAM	ıps,	•	٠	•	•		2,823 00
Meters (electric),	•	•	•	•	•	•	•	•		2,020 00

1897.]	PUI	BLI	<b>C</b>	DOC	CUN	ME:	NT.	<u> </u>	No. 35	•	lxxx	V
Due for electric li	ght ar	nd po	wer,								\$1,786 8	7
Incandescent lam								•		٠	1,400 0	0
Globes on hand,			•	•		•				•	125 0	0
Horses, wagons,							:	•			700 0	0
Sundry accounts	due th	e cor	npan	у, .	•						3,024 4	7
Office furniture,		•								•	725 0	0
Cash on hand, .		•		•							4,240 7	7
Investments, .	•	•	•		•	•	•	•			4,123 0	0
Total assets,	as per	bool	s of	the co	om pa	ny,					<b>\$145,404</b> 9	5
				τ.,	AHILI	TT V0						
Capital stock, .							•				<b>\$</b> 50,000 0	0
Notes payable,											35,000 0	
• • •									•			
Total liabilitie										•	\$85,000 0	
Profit and loss ba	lance,	•	•	•	•	٠	•	•		•	60,404 9	5
											\$145,404 9	5
			MAN	UFACT	URIN	ig A	ccov	NT.	Dz		Cm.	
Ononatin	f	gas.							\$25,986		V=-	
Operating expense	JB, {	gas, electr	ic,						23,593			
Income from sale									-,-,-		\$31,863 6	0
	luals.	•					•				4,394 3	
	•				•	÷	-	-			575 6	
				and p			•	•			28,705 8	
				, . , .		, .	•	•	10,846	54	=0,100 0	•
Balance to profit	and lo	88,	elec elec	tric,	•	•	•	•	5,112			
		•	OICC	,	•	•	•	•				-
		I	BOP	IT AN	D Lo	68 A	CCOL	NT.	<b>\$</b> 65 <b>,</b> 539	3/	<b>\$</b> 65,539 3	•
											_	
Relense Tone 90	1905								Dn.		CR. 950 154 9/	^
							•	•	Dr.		\$50,154 86	
Balance of gas me	nufac	turin	g ac	count,		•	•	•	Dr.		\$50,154 86 10,846 5	4
Balance of gas ma Balance of electric	nufac man	cturin ufacto	g ac	count, g accor		:	•	•	Dr.		\$50,154 86 10,846 54 5,112 53	4 2
Balance of gas ma Balance of electric Interest received,	nufac man	cturin ufact	g acu uring	count, g accor	int,	•	•	•	Dr.		\$50,154 86 10,846 56 5,112 53 1 86	4 2 6
Balance of gas ma Balance of electric Interest received, Other items of inc	mufac man	cturin ufacto	g ac	count, g accor		•	•	•		.00	\$50,154 86 10,846 54 5,112 53	4 2 6
Balance of gas ma Balance of electric Interest received, Other items of inc Interest paid,	ome,	eturin ufact	g accurring	count, g accor	int,	•	:	•	<b>\$</b> 1,970		\$50,154 86 10,846 56 5,112 53 1 86	4 2 6
Balance of gas ma Balance of electric Interest received, Other items of inc Interest paid, Dividends declare	ome,	eturin ufacto	g accurring	count, g accor	int,	•	•	•	\$1,970 4,000	00	\$50,154 86 10,846 56 5,112 53 1 86	4 2 6
Interest paid, .	ome,	eturin ufacto	g accurring	count, g accor	int,	•			\$1,970 4,000 60,404	95	\$50,154 86 10,846 5- 5,112 55 1 86 259 25	4 2 6 3
Balance of gas ma Balance of electric Interest received, Other items of inc Interest paid, Dividends declare	ome,	eturin ufacto	g accurring	count, g accor	int,	•	•		\$1,970 4,000	95	\$50,154 86 10,846 56 5,112 53 1 86	4 2 6 3
Balance of gas ma Balance of electric Interest received, Other items of inc Interest paid, Dividends declare Balance June 30,	ome, d,	eturin ufacto	g acuring	count,	unt,	•	•		\$1,970 4,000 60,404	95 95	\$50,154 86 10,846 5- 5,112 5: 1 86 259 22	4 2 6 3
Balance of gas ma Balance of electric Interest received, Other items of inc Interest paid, Dividends declare Balance June 30,	ome, d,	eturin ufacto	g acuring	count, g accord	unt,	C L	•		\$1,970 4,000 60,404 \$66,374	95 95	\$50,154 86 10,846 5- 5,112 5: 1 86 259 22	4 2 6 3
Balance of gas ma Balance of electric Interest received, Other items of inc Interest paid, Dividends declare Balance June 30,	ome, d,	eturin ufacto	g acuring	count, g accord	tRI	C L	•		\$1,970 4,000 60,404 \$66,374	95 95	\$50,154 86 10,846 5- 5,112 5: 1 86 259 22	4 2 6 6 3 5 5
Balance of gas ms Balance of electric Interest received, Other items of inc Interest paid, Dividends declare Balance June 30,  NOR Real estate, Steam plant,	ome, d, 1896,	eturin ufacto	g accurring	count, g accord	TRIC	C LI	•		\$1,970 4,000 60,404 \$66,374	95 95	\$50,154 86 10,846 5- 5,112 5: 1 8 259 22 \$66,374 9: 7.	4 2 6 3 3 5
Balance of gas ma Balance of electric Interest received, Other items of inc Interest paid, Dividends declare Balance June 30,	ome, d, 1896,	eturin ufact	g accurring	count, g accord	TRIC	C LI			\$1,970 4,000 60,404 \$66,374	95 95 NY	\$50,154 86 10,846 5- 5,112 5: 1 8 259 2: \$66,374 96	4 2 6 3 3 5
Balance of gas ms Balance of electric Interest received, Other items of inc Interest paid, Dividends declare Balance June 30,  NOR  Real estate, Steam plant, Electric plant, Electric plant, Electric plant, Electric lines, tran	ome, d, 1896,	APTO	g accurring	count, g accor	TRIC	C L			\$1,970 4,000 60,404 \$66,374	95 95 NY	\$50,154 86 10,846 5- 5,112 5: 1 8 259 22 \$66,374 9: 7.	4 2 6 3 3 5 5
Balance of gas ma Balance of electric Interest received, Other items of inc Interest paid, Dividends declare Balance June 30, NOR Real estate, Steam plant, Electric plant, Electric lines, trar Meters,	ome. d, 1896,	eturin ufact	g accurring	count, g accor	TRIC	C L	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	\$1,970 4,000 60,404 \$66,374	95 95 NY	\$50,154 86 10,846 5- 5,112 5: 1 8 259 22 \$66,374 9: 27,340 76 35,005 6:	4 2 6 3 3 -5 1 8 9 6
Balance of gas ma Balance of electric Interest received, Other items of inc Interest paid, Dividends declare Balance June 30, NOR Real estate, Steam plant, Electric lines, tran Meters, Fuel on hand,	ome, d, 1896,	PTC	g accurring	ecunt, gaccor	TRIC	C L	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	\$1,970 4,000 60,404 \$66,374	95 95 NY	\$50,154 86 10,846 5- 5,112 5: 1 8 259 22 \$66,374 9: 7. \$42,086 9 27,340 7: 35,005 6: 38,729 96	4 2 6 3 -5 1 8 9
Balance of gas ma Balance of electric Interest received, Other items of inc Interest paid, Dividends declare Balance June 30, NORT Real estate, Steam plant, Electric plant, Electric lines, tran Meters, Yuel on hand, Oil and waste on 1	anuface manicome, come,	APTO	g accurring	ecunt, according to the count,	TRIC	C L	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	\$1,970 4,000 60,404 \$66,374	95 95 NY	\$50,154 86 10,846 55,112 55 1 8 259 22 \$66,374 96 \$42,086 9 27,340 76 35,005 66 38,729 96 2,706 46	4 2 6 3 5 1 8 9 9 0
Balance of gas ma Balance of electric Interest received, Other items of inc Interest paid, Dividends declare Balance June 30, NORT Real estate, Steam plant, Electric plant, Electric lines, tran Meters, Yuel on hand, Oil and waste on 1	anuface manicome, come,	APTO	g accurring	ecunt, according to the count,	TRIC	C L	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	\$1,970 4,000 60,404 \$66,374	95 95 NY	\$50,154 86 10,846 5- 5,112 5: 1 8 259 22 \$66,374 9: 27,340 7: 35,029 9: 2,706 4: 500 06	4 2 6 3 5 1 8 9 6 9 9 0 0
Balance of gas ma Balance of electric Interest received, Other items of inc Interest paid, Dividends declare Balance June 30, NORT Real estate, Steam plant, Electric plant, Electric lines, tran Meters, Fuel on hand, Oil and waste on Incandescent lamp	anuface mann ome, d, 1896, FHAM	APTO	g accurring	count,	TRICASSET	C LI	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	\$1,970 4,000 60,404 \$66,374	95 95 NY	\$50,154 86 10,846 5- 5,112 5: 1 8 259 22  \$66,374 9: 27,340 7: 35,005 63 38,729 9 2,706 4: 500 00 10 06	4 2 6 3 5 1 8 9 6 9 0 0 0
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Balance of gas ma Balance of electric Interest received, Other items of inc Interest paid, Dividends declare Balance June 30, NORT Real estate, Steam plant, Electric plant, Electric lines, tran Meters, Fuel on hand, Oil and waste on Incandescent lamp	anuface manicome, de manicome,	APTO	g accurring	count, g accord	TRICANSET	C LI	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	\$1,970 4,000 60,404 \$66,374	95 95 NY	\$50,154 86 10,846 5- 5,112 5: 1 842,086 9 27,340 7: 35,005 6: 38,729 9: 2,706 4: 500 0: 75 00 318 22	4 2 6 3 5 1 8 9 6 9 9 0 0 0 7
Balance of gas man Balance of electric Interest received, Other items of inc Interest paid, Dividends declare Balance June 30, NORT Real estate, Steam plant, Electric lines, transmeters, Electric lines, transmeters, Line on hand, Oil and waste on Incandescent lamp Horses, wagons, esundry accounts of Office furniture,	anuface manicome, dd, 1896, FHAM	APTO	g accurring	count, g accord	TRICANSET	C LI	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	\$1,970 4,000 60,404 \$66,374	95 95 NY	\$50,154 86 10,846 5- 5,112 5: 1 8 259 22 \$66,374 9:  \$42,086 9 27,340 73 35,005 63 38,729 9 2,706 41 500 00 10 00 75 00 318 22 2,655 17	4 2 2 6 3 5 1 8 9 9 9 0 0 0 0 7 0
Balance of gas man Balance of electric Interest received, Other items of inc Interest paid, . Dividends declare Balance June 30,	anuface manicome, dd, 1896, FHAM	APTO	g accurring	count, g account, country g account country g account country g account country g account g acco	TRIC	C LI	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	\$1,970 4,000 60,404 \$66,374	95 95 95	\$50,154 86 10,846 5- 5,112 5: 1 8 259 22 \$66,374 9: 27,340 73 35,005 63 38,729 99 2,706 41 500 00 76 07 318 22 2,655 17 72 46	4 2 2 6 3 5 1 8 9 9 9 9 9 9 9 9 9 9 9 9 9 1 9 1 9 1
Balance of gas ma Balance of electric Interest received, Other items of inc Interest paid, Dividends declare Balance June 30, NORT Real estate, Steam plant, Electric lines, tran Meters, Fuel on hand, Oil and waste on Incandescent lam Horses, wagons, e Sundry accounts of	anuface manners ome, dd, d896, FHAM	APTO	g accurring	count, g accord	TRICAL SET	C Li	GGHT		\$1,970 4,000 60,404 \$66,374	95 95 95	\$50,154 86 10,846 5- 5,112 5: 1 8 259 22  \$66,374 9:  \$42,086 9 27,340 76 35,005 66 38,729 96 2,706 49 500 10 00 75 00 318 22 2,655 17 72 44 422 24 190 00	4 2 2 8 3 1 8 9 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

	GAS	, <b>A</b>	ND	E	LE	CT	RIC	L	IGI	HT.		[Jan
				Lı	ABIL	ITI B8				•		
Capital stock,												\$58,700 (
Bonds issued,			:	•								58,500 ( 18,560 (
Notes payable,		•										18,560
Unpaid bills,			•		•		:				•	172
Depreciation fo	ınd, .	•	•	•	•		:	•	•	•	•	4,000
Total liabi	lities, as p	er b	ooks o	of th	e cor	npan	٧.					\$139,932
Total liabi Profit and loss	balance.									·		10,179
												<b>\$</b> 150,112 8
					ruri	NG A	CCOUN	iT.		Dr.		Cr.
Operating expe					•	•	•	•	81	8,431	10	
Income from s						•	•	•				<b>\$24,753</b> (
Balance to pro	nt and loss	3,	•	•	•	•	•	•		6,321	97	
									<b>\$</b> 2	4,753	07	<b>\$24,753</b>
		F	BOFI	r an	D L	088 .	ccou	NT.				
		_								Dr.		CR.
Balance June 3		•	•	•	•	. •	•	•				\$7,441
Balance of man	nufacturin	gac	count	• •	•	•	•	•				6,321
Rents, . Interest paid,	• •	•	•	•	•	•	•	•	_	4 400	07	823
Balance June a		•	•	•	•	•	•	•	<b>*</b>	4,406 0,179	OK. Al	
Dalance June (	ю, 1000,	•	•	•	•	•	•	•				
									\$1	4,586	82	<b>\$14,586</b> 8
	NORT	HAI	MPIC	)N	GAS	LIC	HT (	coz	IPAI	NY.		
					Ass B	T8.						
												\$41,118
Machinery and							•	•	•	•	•	3,000
Street mains,		•	•	•	•	•	•	•	•	•	•	20,000 (
Due for gas,	• •	•	•	•	•	•	•	•	•	•	•	2,198
		•	•	•	•	•	. •	•	•	•	•	1,289
Coal on hand,	• • .	•	•	•	•	•	•	•	•	•	•	600 ( 210 (
Coal on hand, Coke on hand,		•	:	:	•	•	•	•	:	•	•	117
Coal on hand, Coke on hand, Far on hand, Enrichers on b	end .			•	•	•	•	•	•	•	•	24 (
Coal on hand, Coke on hand, Far on hand, Enrichers on h Purifying mate	and, .	and					•	•	•	•	•	1,849
Coal on hand, Coke on hand, Tar on hand, Enrichers on h Purifying mate	and, . orials on hi	ind,	•	•	•		_					
Coal on hand, Coke on hand, Tar on hand, Enrichers on h Purifying mate Other materials Stoves on hand	and, .  orials on he  s on hand,	ind,	:	:	:		:	:	:	•	•	•
Purifying mate Other material Stoves on hand	orials on he s on hand, l, .	and,			:	•		•	•	•	•	46
Purifying mate Other material Stoves on hand Sundry accoun	orials on he on he on hand, i,	and, com	.pany,	, .	•	•	•		•	•	•	46 5 1,373 1
Due for gas, Coal on hand, Coke on hand, Tar on hand, Enrichers on h Purifying mater Other material Stoves on hand, Sundry accoun Cash on hand, Investments,	orials on he on he on hand, i, ts due the	and, com	.pany,	, .		•	· · ·		•	•	•	46 5 1,373 1 7,936 0

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# 1897.] PUBLIC DOCUMENT—No. 35. lxxxvii

		MANU	PACT	RIN	ig A	.ccov	NT.	Dr.		Cn.	
Operating expenses, .								\$19,027	34		
Income from sale of g	as, .									\$26,153	50
residual	8, .									3,157	33
other so	urces,	•			•					37	05
Balance to profit and	loss,	•	•	•	•	•		10,320	54		
								\$29,347	88	\$29,347	88
	1	PROFIT	AND	Lo	88 A	<b>Lcc</b> ov	NT.			Ψ20,01,	•
Delenes Tone 90 1008								Dr.		CR.	90
Balance June 30, 1895		•	•	•	•	•	•			\$25,646	
Balance of manufactu			•	•	•	•	•			10,320 138	
Interest received, .	•	•	•	•	•	•	•			253	
Rents,	•	•	•	•	•	•	•	\$4,000 (	m	200	01
Construction charged	off.	•	•	•	•	•	•	2,595			٠
Balance June 30, 1896	· .	:	:	•	:	•	:	29,763			
Dullinco vano oo, 1000	, .	•	•	•	•	•	•		_		
		_						<b>\$36,358</b> 9	91	<b>\$</b> 36,358	91
NORTH	ATTI	R BOB	OUG	н	GAS	S 1.10	тн	COMPAN	IV.		
								0011111	•		
Deel estate	•			38E1	r <b>8</b> .					047 474	70
Real estate,			-	•	•	•	•		•	\$47,474	
Machinery and manus			nance	я,	•	•	•	• •	•	16.391	
Makama	•		•	•	•	•	•		•	18,238	
Meters,	•	•	•	•	•	•	•.		•	3,129 1,309	
Coal on hand	•	•	•	•	•	•	•		•	2,151	
Due for gas,	•	•	•	•	•	•	•	• •	•	277	
Ter on hand.	•	•	•	•	•	•	•	• •	•		25
Rurichers on hand.	•	•	•	•	•	•	•	•	•	49	
Purifying materials of	n hand		•	•	•	•	•	• •	•	104	
Stoves on band.		•		:		•	•	: :	•	785	
Fixtures on hand.		-		•	·	•	•	: :	•	836	
Sundry accounts due	the cor	npany.			·					407	-
Office furniture, .			•			·				462	
Cash on hand,										4,343	
•											
Total assets, as p	er bool	ks of th	e cor	npa	ny,	•	•		•	\$95,463	57
			_								
			LIAI			•					
Capital stock, Unpaid dividends, .	•	•	•	•	•	•	•		•	\$68,100	
			•	•	•	•	•	• •	•	2,724	
Interest due but not p	,		• •• ••	.12	- امما	horr	•	• •	•	268	
Amounts due from th	e comp	auy, n	OF ID	ud	eu a	DUVO,	•	• •	• .	17,740	-5U
Total liabilities, a	s per b	ooks o	f the	con	pan	у,				\$88,833	60
Profit and loss balance					•					6,629	
										005 400	57
		MANUI	PACTU	RIN	ıg A	T000.	NT.			<b>\$95,463</b>	9/
								Dr.		Cr.	
Operating expenses, .		•	•	•	•	•	•	\$14,758 C	72		
Income from sale of g			•	•	٠.	•	•			\$22,377	
residual	-		•	•	•	•	•			2,092	
other so		•	•	•	•	•	•			406	50
Balance to profit and	1068,	•	•	•	•	•	٠	10,117	74		
								\$24,876	46	\$24,876	46
								w,-, J	-	,-,	

# lxxxviii GAS AND ELECTRIC LIGHT.

Jan.

										-
	D.			. т		A ===				
	PI	ROPIT	ANI	D TV	<b>288</b>	Acco	UNT.	Dr.		Ca.
Balance June 30, 1895,								-	-	<b>33,326</b> 64
Balance of manufacturing	acc	ount.								10,117 74
Rents,	-									87 50
Other items of income,										115 91
								\$1,344	00	
Interest paid, Dividends declared, .								5,448	00	
Construction charged off,								225	82	
Balance June 30, 1896,								6,629	97	
		•						\$13,647	79	<b>\$13,647</b> 79
		_								
NOF	wo	OD	GAS	8 T.1	ran	T C	OMPA:	NV		
1101	• ,, 0	OD		ASE.						
Real estate,										<b>\$3,000 0</b> 0
Machinery and manufactu	Irin -	ann	· liana	•	nd.	troot	meine	• •	•	26,408 15
-	-					street.	шалив,	• •	•	1,276 25
•			•	•	•	•	•		•	• •
Due for gas, Coal on hand,	•	•	•	•	•	•	•	• •	•	1,307 61 208 59
Purifying materials on ha		•	•	•	•	•	•		•	9 50
Other materials on hand,				•	•	•	•		•	56 50
Stoves on hand, .	•	•	:	•	•	•	•		•	15 00
a	•	•		•	•	•	•	• •	•	55 12
_	•	•	•	•	•	•	•	• •	•	1,472 26
invosumense,	•	•	•	•	•	•	•	• •	٠.	
Total assets, as per bo	ooks	of th	e co	mpa	ny,	•	•	• •	•	<b>\$</b> 33,808 98
			Lta	BILI	TIE	3.				
Control stock										<b>A10 000 00</b>
Capital stock,	•	•	•	•	•	•	•		•	\$12,000 00
Notes payable,	•	•	•	•	•	•	•		•	17,400 00
Total liabilities as ma	- ha	-l	e sha							\$29,400 00
Total liabilities, as pe Profit and loss balance,							•		:	4,406 98
·										<b>\$33,80</b> 8 98
	M	ANUE	ACT	URII	10 A	Accor	NT.			<b>φυσ,</b> 000 30
								Da.		Ca.
Operating expenses, .	•	•	•	•	•	•	•	<b>\$7,024</b>	98	
Income from sale of gas,	•	•	•	•	•	•	•			\$8,289 43
other source		•	•	•	•	•	•			527 <b>0</b> 0
Balance to profit and loss,	•	•	•	•	•	•	•	1,791	45	
								<b>\$8,</b> 816	43	\$8,816 43
	Pı	ROPIT	ANI	L	88	A cco	UNT.			•
Delenes Tune 90 1906								Da	<b>.</b>	Cz.
Balance June 30, 1895,	•	•	•	•	•	•	•			\$3,122 95
Balance of manufacturing				•	•	•	•	AKAF	40	1,791 45
Interest paid,				•	•	•	•	<b>\$</b> 505		
Balance June 30, 1896,	•	•	•	•	•	•	•	4,408	20	

### ORANGE ELECTRIC LIGHT COMPANY.

#### ASSETS.

			22.5	10 10	•							
Real estate,			i		•						\$1,703	28
			1								8,668	84
Electric plant				•			•				7,033	
Electric lines.				•	•	•	_				19,620	
Meters.				-			-		-		662	
Transformers											8,075	
Arc lemns.	•				•			•	•	:	8,816	
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Due for light and power.	•				•	•	•	•	•	•	1,518	
Due for light and power, . Carbons on hand,	•		,		•	•	•	•	•	•	12	
Oil and waste on hand	•	•	•	•	• .	•	•	•	•	•	79	
Oil and waste on hand, Incandescent lamps on har Globes on hand,	· .	•	•	•	•	•	•	•	•	•	33	
Globes on hand	ıu, .	'	•		•	•	•	•	•	•	28	
Other materials on hand, .	•		•	•	•	•	•	•	•	•	509	
Tools	•	•	•	•	•	•	•	•	•	•	195	
Tools,	•	•	•	•	•	•	•	•	•	•		
Tools, Horses, wagons, etc., Sundry accounts due the c Office furniture, Cash on hand.	•	'	•	•	•	•	•	•	•	•	141	
Sundry accounts due the c	om pa	шy,		•	•	•	•	•	•	•	341	
Omce rurniture,	•	•	•	•	•		•	•		•	48	
0000 011 00000, 1	•		•	•	•		•	•	•	•	339	
			•		•	•		•	•	•	50,569	
Insurance and interest adv		•			•			•	•	•	204	00
Total assets, as per bo Profit and loss balance,	oks o	f the	COT	nan	₽.	_					\$103,098	95
Profit and loss balance.			, соп	· herr	,	•	•	•	•	•	9,703	
1 Toble and loss balance,	•		•	•	•	•	•	•	•	•	3,700	
											\$112,802	33
			T	BILIT							<b>V</b> ,	
				31711	1 150.							
Capital stock,			•	•	•	•	•	•	•	•	\$45,000	
Bonds issued,	•		•	•	•	•	•	•	٠.	•	45,000	
Notes payable,	•		•	•	•	•	•	•	• •	•	16,325	
Unpaid bills,			•	•	•	•	•	•	•	•	562	
Unpaid bills, Interest due but not paid, Amounts due from the cor	•		•	•	•	•	•	•	•	•	3,616	
Amounts due from the con	npan	y, no	ot inc	ebul:	d abo	)¥6,	•	•	•	•	2,298	19
Total liabilities, as per	pool	ts of	the	comp	eny,	•	•	•	•	•	\$112,802	83
	MA	NUP.	AOTU	RING	Ace	COUN	T.		Dr.		Cm.	
Operating expenses, .									974	28	CH.	
Income from sale of light					•	•	•	φυ,		20	\$11,127	94
					•	•	•				60	
other source Balance to profit and loss,	, .		•	•	•	•	•		218	87	•	30
Balance to prout and loss,	•	•	•	•	•	•	•		210	<i>"</i>		_
								211,	187	80	\$11,187	80
	n			<b>T</b>	- 4 -		_	•			• •	
	PRO	PIT	AND	FOS	s Ao	COUN	T.		Dr.		Cr.	
Balance June 80, 1895,			• .						428	92		
Balance of manufacturing								ų,		_	\$4,213	57
Rents											175	
Internat naid.							-	8.	619	56	-,0	
Wiring account.	•	. '	-	-	-		-		44 (			
Wiring account, Balance June 30, 1896,			-	:	:		-		·		9,703	22
	•		•	•	•	•	•			_		_
								\$14,	092	50	\$14,092	50

### GAS WORKS OF THE OTIS COMPANY OF WARR.

		MANU	PACT	URI	NG A	Accor	NT.			
									Dr.	Cz.
Operating expenses, .	•	•	•	•	•	•	•	<b>\$</b> 7,	466 42	
Operating expenses, .  Income from sale of gas	<b>,•</b>	•	•	•	•	•	•			<b>\$</b> 6,682 87
residuals,										1,105 45
Balance to profit and los	18,								321 90	)
									700 90	A7 700 40
		_						₩/,	788 32	\$7,788 32
Pľ	TT8	FIEL	D CC	DAL	. G	AS C	OMP	ANY.		
			Δ	88E	TS.					
Real estate,		•								\$30,650 85
Machinery and manufac	turi	ng ann	liane	BØ.						37,591 36
Street mains,			•					-		20,220.00
Meters,								-		6.540 00
						•	·	•		3,719 64
Coal on hand,	•	•		•	Ċ		•	•	•	449 11
Enrichers on hand, .	•	•	•	•	:		•	•	•	300 00
Enrichers on hand, .  Purifying materials on h	and	. •	•	•		•	•	•	•	184 00
Stoves on hand	IADU	· ·	•	•	•	•	•	•	•	
Stoves on hand, Cash on hand,	•	•	•		•	•	•	•	•	359 15
Nataranalaski			•		•	•	•	•	•	1,507 49
	•		•	•	•	•	•	•	•	18,975 00
Investments,	•	•	•	•	٠	•	•	•	•	2,450 00
Total assets, as per	book	s of th	ie coi	npa	ny,					\$121,836 60
• •				-	• •					• •
			LIA	D F F F	~~					
Or alkal shock			DIA.	DILL	IIDO					
Capital stock,			•	•	•	•	•	•		<b>\$62,500 00</b>
Deposits,	•		•	•	•	•	•	•	•	300 00
Reserved fund,	•	•	•	•	•	•	•	•	•	40,000 00
Total liabilities, as u	er b	ooks o	of the	con	npar	٧		•		8102,800 00
Total liabilities, as p Profit and loss balance,	•							•	_	19,036 60
22020 1000 1000,	-	•	•	•	•	-	•	•	•	
	,	Manu								\$121,836 <b>6</b> 0
	•	BLANU.	PAUL	KIN	16 2	LUCUU	м1.		Dr.	Cas.
Operating expenses, .								<b>3</b> 17.	821 89	
Income from sale of gas,								<b>V</b> ,		\$25,994 57
residuals,		•					•			8 00
other sour				-	-					68 50
Balance to profit and los								8.	249 18	
Duminos to prome and to	-,		•	•		•	-			
		n		т.				<b>\$</b> 26,	071 07	<b>\$26,071 07</b>
	1	PROPIT	ANI	L/O	PRS 4	r ccot	NT.		Dz.	Ca.
Balance June 30, 1895,								•		817,429 70
Balance of manufacturin		- 		-	•	•	-			8,249 18
Interest received.	_		•	•	•	•	•			857 72
Dividends declared, .			•	•	•	•	•	<b>-7</b>	800 00	
Balance June 30, 1896,	•	•	•	•	•	•	•		500 00 036 60	
DEIEIICE JUIE 30, 1596,	•	•	•	•	•	•	•	19,		
								\$26,	636 60	\$26,536 69

^{* 1,689,300} feet of gas used in the mills of the company, and not included in the income given.

# PITTSFIELD ELECTRIC COMPANY.

		OLIBIA		ال اللاق	<i>J</i> 1 10	10 0	OMI	ANI	•		
				A881	ETS.						
Real estate, . Steam plant, . Electric plant, . Electric lines, .			_	_		_	_				\$41,330 41
Steam plant.			•	•	•	•		•	•	•	36,593 34
Electric plant	: :		Ċ	·	·	•	•	•	:	:	49,110 19
Blectric lines				•	·	·	•	•	•	•	29,417 91
Meters,			•	•	·	•	•	•	•	•	8,810 10
Transformers		-	•	-		·	•	•	•	•	18,890 34
Arc lamps											7,085 00
Transformers, Arc lamps, Due for light and po	wer.								•		5,553 27
											692 56
Fuel on hand, . Carbons on hand,		•		·					-	•	44 66
Carbons on hand, Tools on hand, . Water, .											932 46
Water					·			:	·		121 50
Sundry accounts du	e the co	om pan v									1,968 54
Cash on hand, .			•								1,140 80
								-			10,115 18
					·						*
		-		-	_		_	•	•	·	
Total assets, as	per boo	oks of th	he c	ompa	nv.						\$212,036 64
	•			•			-			_	<b>V</b> ,
			L	ABIL	ITIE	8.					
Conital stock											<b>#100 000 00</b>
Bonda lesned		•	•	•	•	•	•	•	•	•	\$100,000 00 75,000 00
Capital stock, . Bonds issued, . Notes payable, .	• •	•	•	•	•	•	•	•	•	•	12,943 19
Tinneid bills	• •	•	•	•	•	•	•	•	•	•	
Capital stock, . Bonds issued, . Notes payable, . Unpaid bills, . Amounts due from t	he com	nany r	ot i	nolná	haf	hova	•	•	•		
						•					1,000 00
Total liabilities, Profit and loss balan	as per	books o	f th	e con	npar	ıy,					\$195,020 85
Profit and loss balan	ice, .	•			٠.	٠.					17,015 79
											<b>\$</b> 212,036 64
		MANU	PAC	TURII	NG A	ccou	NT.		Dr.		CR.
Operating expenses,				_	_				,015	10	
Income from sale of						•	·	Ψ	,010		\$59,760 92
other s						-	•				426 68
Balance to profit and	loss.						•	20	.172	50	
		•	•	•	•	•	•			_	
								260	,187	60	\$60,187 60
		Propit	4 84	n I		4 0001		Ψυ	,	•	400)10( 00
		LAUFII	A.N	. D. D.	,05 A	a.ccot	м1.		Dr.		CR.
Balance June 30, 189			•				•				\$24,518 07
Balance of manufact											20,172 50
Rents,				•							756 84
Other items of incom	е, .	•									32 60
Interest paid, .						•		<b>\$</b> 3	,900	00	
Dividends declared,		•						6	,000	00	
Construction charged	off, .	•						13	,547	35	
Depreciation, .								5	,000	00	
Other items, .		•							16	87	
Other items of incom Interest paid, Dividends declared, Construction charged Depreciation, Other items, Balance June 30, 189	3, .							17	,015	79	
										_	
								\$45	,430	01	\$45,480 01

### PLYMOUTH ELECTRIC LIGHT COMPANY.

		20011	1 131	11101	LIVIC	, 1,1	СПІ	COI	ur A.			
				A	88B1	rs.						
Real estate.												<b>8</b> 15,716 78
Steam plant,		•					•	•				42,718 83
Electric plant,		•										47,647 10
Electric lines,		•										34,584 44
Franchise							•					8,000 00
Due for light at Fuel on hand, Carbons on har Oil and waste of Incandescent is Globes on hand Other materials	nd pow	er, .										2,852 68
Fuel on hand,		•	•									2,280 00
Carbons on har	nd, .											38 50
Oil and waste o	n hand	۱, .								•		7 04
Incandescent la	amps or	hand,										29 80
Globes on hand	i, .	•	•	•	•	•					•	18 00
Other materials	s on ha	nd, .		•	•	•					•	1,284 14
Sundry accoun	ts due t	he com	pany	,		•	•	•	•	•		656 12
Cash on hand,		•	•	•	•	•	•	•			•	101 70
Total asset		r hooka	of th		mnas						•	<b>8</b> 155,935 13
Profit and loss	helance	i DOURD	OI M	10 00	mber	ц,	:	:	•	•	•	767 08
1 1000 000	DESIGNATION	, .	•	•	•	•	•	•	•	•	٠	707 00
				Lia	BILI	țies						<b>\$</b> 156,702 21
Capital stock,												290,000 00
Bonds issued,		•					•	•				60,000 00
Notes payable,				•	•							3,981 96
Unpaid bills,												2,720 25
M-A-1 14-E	144	<b>.</b>					_				•	
Total liabi	mues, a	s per bo	OKS (	or the	con	pan	у,	•	•	•	•	\$156,702 21
		M	[anu	PAOT	URIN	ig A	.cou	īT.		D=		~
Operating expe	mees.			PAOT	URIN	ig A	.000U	it.	<b>2</b> 17	Du.		Ca.
Operating expe						rg A		i <b>t.</b>	\$17	Du. ,380		
Income from s	ale of li	i <b>ght an</b> d	l pow	er,		rg A		i <b>t.</b>		,380	<i>5</i> 0	Ca. \$24,461 55
	ale of li	i <b>ght an</b> d	l pow	er,		10 A				,380 ,081	50 05	\$24,461 55
Income from s	ale of li	ight and loss,	l pow	er,		•	:	:		,380	50 05	
Income from s	ale of li	ight and loss,	l pow	er,		•	ccou	:		,380 ,081 ,461	50 05	\$24,461 55 \$24,461 55
Income from a Balance to pro	ale of li fit and l	ight and loss,	l pow	er,				· ·	\$24	,380 ,081 ,461 Dr.	50 05 55	\$24,461 55
Income from a Balance to pro	ale of lift and l	ight and loss,	l pow	er, · ·		•		:	\$24	,380 ,081 ,461	50 05 55	\$24,461 55 \$24,461 55 Ca.
Income from a Balance to pro Balance June 8 Balance of ma	ale of li fit and l 30, 1895 nufactu	ight and loss, P.	pow ROPI	6r,				· ·	\$24	,380 ,081 ,461 Dr.	50 05 55	\$24,461 55 \$24,461 55 Ca. \$7,061 06
Income from a Balance to pro Balance June 3 Balance of ma Wiring and sa	ale of lift and l	ight and loss, P , , ring accupplies,	pow ROPIT	6r,				· ·	7 \$24 \$4	,380 ,081 ,461 ,Dr. ,869	50 05 55 72	\$24,461 55 \$24,461 55 Ca.
Income from s Balance to pro Balance June s Balance of ma Wiring and sa Interest paid,	ale of lift and l	ight and loss, P. , ring accupplies,	pow ROPIT	6r,				· ·	**************************************	,380 ,081 ,461 Dr. ,869	50 05 56 72	\$24,461 55 \$24,461 55 Ca. \$7,061 06
Income from s Balance to pro Balance June s Balance of ma Wiring and sa Interest paid,	ale of lift and l	ight and loss, P. , ring accupplies,	pow ROPIT	6r,				· ·	**************************************	,380 ,081 ,461 ,Dr. ,869	50 05 56 72	\$24,461 55 \$24,461 55 Ca. \$7,061 06
Income from a Balance to pro Balance June 3 Balance of ma Wiring and sa	ale of lift and l	ight and loss, P. , ring accupplies,	ROPIT	E AN	D La			· ·	**************************************	,380 ,081 ,461 Dr. ,869 2,258 745	50 05 56 72 56 91	\$24,461 55 \$24,461 55 Cz. \$7,061 06 26 06
Income from s Balance to pro Balance June s Balance of ma Wiring and sa Interest paid,	ale of lift and l	ight and loss, P. , ring accupplies,	ROPIT	E AN	D La			· ·	**************************************	,380 ,081 ,461 Dr. ,869	50 05 56 72 56 91	\$24,461 55 \$24,461 55 Ca. \$7,061 06 26 06
Income from s Balance to pro Balance June s Balance of ma Wiring and sa Interest paid,	ale of lift and l	ight and loss, P. , ring accupplies,	ROPIT	E AN	D La			· ·	**************************************	,380 ,081 ,461 Dr. ,869 2,258 745	50 05 56 72 56 91	\$24,461 55 \$24,461 55 Cz. \$7,061 06 26 06
Income from s Balance to pro Balance June s Balance of ma Wiring and sa Interest paid,	ale of lift and lift	ight and loss,  P , , ring accupplies,	ROFI	. 61,			LCCOV		7 \$24 \$4 2	,380 ,081 ,461 Dr.,369 2,258 745	50 05 56 72 56 91	\$24,461 55 \$24,461 55 Cz. \$7,061 06 26 06
Income from s Balance to pro Balance June s Balance of ma Wiring and sa Interest paid,	ale of lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift	ight and loss, P. , ring accupplies,	ROFI	. 61,			LCCOV		7 \$24 \$4 2	,380 ,081 ,461 Dr.,369 2,258 745	50 05 56 72 56 91	\$24,461 55 \$24,461 55 Cz. \$7,061 06 26 06
Income from a Balance to pro Balance June i Balance of ma Wiring and sa Interest paid, Other items, Balance June i	ale of lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift	ight and loss,  P , , ring accupplies,	ROFI	C GA			LCCOV		7 \$24 \$4 2	,380 ,081 ,461 Dr.,369 2,258 745	50 05 56 72 56 91	\$24,461 55 Ca. \$7,061 06 26 06 767 08 \$7,874 19
Income from s Balance to pro Balance June s Balance of ma Wiring and sa Interest paid,	ale of lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift	ight and loss,  P , , ring accupplies,	ROFI	C GA	D Lo		LCCOV		7 \$24 \$4 2	,380 ,081 ,461 Dr.,369 2,258 745	50 05 56 72 56 91	\$24,461 55 CE. \$7,061 06 26 06 767 08 \$7,874 19
Balance to pro Balance June a Balance of ma Wiring and sa Interest paid, Other items, Balance June a Real estate, Machinery and	ale of lift and l	ght and loss,  P,  ring accupplies,	ROFIT	GAA	LS I	JIGE	LCCOV		7 \$24 \$4 2	,380 ,081 ,461 Dr.,369 2,258 745	50 05 56 72 56 91	\$24,461 55 Ca. \$7,061 06 26 06 767 08 \$7,874 19
Balance to pro  Balance to pro  Balance of ma  Wiring and sa Interest paid, Other items, Balance June :  Real estate, Machinery an  Street mains,	ale of lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift and lift	ght and loss,  P,  ring accupplies,	ROFIT	GAA	LS I	JIGE	LCCOV		7 \$24 \$4 2	,380 ,081 ,461 Dr.,369 2,258 745	50 05 56 72 56 91	\$24,461 55 Cz. \$7,061 06 26 06 767 08 \$7,874 19 \$8,350 00 15,000 00 14,650 00
Income from a Balance to pro Balance June a Balance of ma Wiring and sa Interest paid, Other items, Balance June a Real estate, Machinery an Street mains, Meters,	ale of lift and l	ight and loss,  P,  ring accurplies,	count	GAA	LS I	JIGE	LCCOV		7 \$24 \$4 2	,380 ,081 ,461 Dr.,369 2,258 745	50 05 56 72 56 91	\$24,461 55 Cz. \$7,061 06 26 06 767 08 \$7,874 19 \$8,350 00 15,000 00 14,650 00 2,000 00
Balance to pro  Balance to pro  Balance of ma  Wiring and sa Interest paid, Other items, Balance June :  Real estate, Machinery an  Street mains,	ale of lift and l	plant and loss,  P,  ring accurplies,  characteristics	ropin	GA	LS I	JIGE	Accou		7 \$24 \$4 2 \$7 \$7	,380 ,081 ,461 Dr.,369 2,258 745	50 05 56 72 56 91	\$24,461 55 Cz. \$7,061 06 26 06 767 08 \$7,874 19 \$8,350 00 15,000 00 14,650 00

1897.]	PUBL	C	DO	CU.	MEI	<b>T</b> -	No	o. 3	5.	<b>x</b> cii
Coke on hand, .			_		_					<b>827</b> 50
					•	•	÷			•
Enrichers on har	nd	·	•		•	•				161 30
Purifying materi	als on hand	1								106 50
Other materials	on hand, .	•		•			•			115 00
Stoves on hand,	• •									65 00
Tar on hand, Rurichers on har Purifying materi Other materials of Stoves on hand, Fixtures on hand Sundry accounts Cash on hand,	i,									205 38
Sundry accounts	due the co	mpa	ny,	•		•	•			629 97
Cash on hand, .				•	•		.•			1,722 68
Total assets,	as per boo	ks o	f the	comp	any,	•	•			\$44,934 86
			L	IABII	ITIES					
Capital stock.										\$40,000 00
Capital stock, Notes payable, Unpaid bills, Unpaid dividend Interest due but		•	•	•	•	•	•			
Unpaid bills		·	•		·	•			• •	352 21
Unpaid dividend	8									87 50
Interest due but	not paid.						•			18 47
			· .							
Total liabilit Profit and loss b	les, as per	pook	s of t	he co	mpany	7, .	•	•	•	\$41,458 18
Pront and loss of	alance, .	•	•	•	•	•	•	•	• •	8,476 68
		W.	V1179 A C	14711 TO T	ng A	00011	W.T			\$44,934 86
					NG A	0000	MT.	D	R.	Cr.
Operating expens	808,			•	•			\$7,1	24 81	
Income from sale	e of gas, .			•		•	•			<b>\$8,772</b> 58
res	iduals, .		•	•	•	•	•			680 65
Balance to profit	and loss,	•	•	•	•	•	•	2,3	28 <b>92</b>	
								₩V,4	53 23	<b>8</b> 9,403 23
		Pro	PIT A	nd L	088 A	coot	NT.			\$9,453 23
Balance June 30.			PIT A	nd L	.088 A	COOT	NT.		03 23 R.	Cr.
Balance June 30, Balance of manu	1895, .	ecou	nt				•			Cr. \$2,830 06
Balance of manu	1895, .	ecou	nt				•			Cr.
Balance of manu	1895, .	ecou	nt				•	D		Cr. \$2,830 06 2,328 92
Balance of manu	1895, .	ecou	nt				•	D \$	R.	Cr. \$2,830 06 2,328 92
Balance of manu	1895, .	ecou	nt				•	D \$4 1,4	B. 50 00	Cr. \$2,830 06 2,328 92
Balance of manu Fixture account, Interest paid, Dividends declare Construction cha	1895, . facturing a	ccou	nt, .	•			•	\$4 1,4	B. 50 00 00 00	Cr. \$2,830 06 2,328 92
Balance of manu Fixture account, Interest paid, Dividends declare Construction cha	1895, . facturing a	ccou	nt, .	•			•	\$4	50 00 00 00 10 10	Cr. \$2,830 06 2,328 92
Balance of manu	1895, . facturing a	ccou	nt, .	•				\$4 1,4 1: 4: 3,4:	50 00 00 00 10 10 66 37 76 68	Cr. \$2,830 06 2,328 92
Balance of manu Fixture account, Interest paid, Dividends declare Construction cha Depreciation, Balance June 30,	1895, . facturing a	ceou	nt, .	:		:		\$4 1,4 1,4 3,4 \$5,5	50 00 00 00 10 10 66 87 76 68	Cn. \$2,830 06 2,328 92 344 17 \$5,503 15
Balance of manu Fixture account, Interest paid, Dividends declare Construction cha Depreciation, Balance June 30,	1895, . facturing a	ceou	nt, .	:		:		\$4 1,4 1,4 3,4 \$5,5	50 00 00 00 10 10 66 87 76 68	Cn. \$2,830 06 2,328 92 344 17 \$5,503 15
Balance of manu Fixture account, Interest paid, Dividends declare Construction cha Depreciation, Balance June 30,	1895, . facturing a	ccou	nt, .	· · · · · · · · · · ·	AND			\$4 1,4 1,4 3,4 \$5,5	50 00 00 00 10 10 66 87 76 68	Cn. \$2,830 06 2,328 92 344 17 \$5,503 15
Balance of manu Fixture account, Interest paid, Dividends declare Construction cha Depreciation, Balance June 30,  QUINO Real estate,	1895, . facturing a	ccou	nt, .	· · · · · · · · · ·	AND			\$4 1,4 1 4 3,4 \$5,5	50 00 00 00 10 10 66 37 76 68 03 15	*2,830 06 2,328 92 344 17  *5,503 16
Balance of manu Fixture account, Interest paid, Dividends declare Construction cha Depreciation, Balance June 30,  QUINO Real estate, Steam plant,	1895, . facturing a	cccou	nt, .	HT	AND	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · ·	\$1,44 11.44 3,4* \$5,50	50 00 00 00 10 10 66 37 76 68 03 15	Ch. \$2,830 06 2,328 92 344 17  \$5,503 16  Y.  \$10,691 03 25,669 11
Balance of manu Fixture account, Interest paid, Dividends declare Construction cha Depreciation, Balance June 30,  QUINO  Real estate, Steam plant, Electric plant,	1895, . facturing a	cccou	nt, .	HT	AND	· · · · · · · · · · · · · · · · · · ·	wer	\$1,44 11.44 3,4* \$5,50	50 00 00 00 10 10 66 37 76 68 03 15	\$2,830 06 2,328 92 344 17 \$5,503 16 7. \$10,691 03 25,669 11 33,693 78
Balance of manu Fixture account, Interest paid, Dividends declare Construction cha Depreciation, Balance June 30,  QUINO  Real estate, Steam plant, Electric plant, Electric lines,	1895, . facturing a	cccou	nt, .	HT	AND	· · · · · · · · · · · · · · · · · · ·	wer	\$1,44 11.44 3,4* \$5,50	50 00 00 00 10 10 66 37 76 68 03 15	©1. \$2,830 06 2,328 92 344 17 \$5,503 15 Y. \$10,591 03 25,569 11 33,693 73 52,900 84
Balance of manu Fixture account, Interest paid, Dividends declare Construction cha Depreciation, Balance June 30,  QUINO  Real estate, Steam plant, Electric plant, Electric plant, Meters,	1895, . facturing a	cccou	nt, .	HT	AND	· · · · · · · · · · · · · · · · · · ·	wer	\$1,44 11.44 3,4* \$5,50	50 00 00 00 10 10 66 37 76 68 03 15	\$2,830 06 2,328 92 344 17  \$5,503 15  10,691 03 25,669 11 33,693 73 52,900 84 3,023 95
Balance of manu Fixture account, Interest paid, Dividends declar Construction cha Depreciation, Balance June 30,  QUINO  Real estate, Steam plant, Electric plant, Electric lines, Meters, Transformers,	1895, . facturing a	cccou	nt, .	HT	AND	· · · · · · · · · · · · · · · · · · ·	wer	\$1,44 11.44 3,4* \$5,50	50 00 00 00 10 10 66 37 76 68 03 15	\$2,830 06 2,328 92 344 17 \$5,503 16 \$. \$10,691 03 25,569 11 33,693 08 3,023 95 7,303 50
Balance of manu Fixture account, Interest paid, Dividends declare Construction cha Depreciation, Balance June 30,  QUINO  Real estate, Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps,	1895, . facturing a	cccou	nt, .	HT	AND	· · · · · · · · · · · · · · · · · · ·	wer	\$1,44 11.44 3,4* \$5,50	50 00 00 00 00 00 10 10 10 10 68 37 76 68	\$2,830 06 2,328 92 844 17  \$5,503 15  \$10,591 03 25,569 11 33,693 78 52,900 84 3,023 95 7,303 50 7,456 25
Balance of manu Fixture account, Interest paid, Dividends declare Construction cha Depreciation, Balance June 30,  QUINO  Real estate, Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Due for light and	1895, . facturing a	cccou	nt, .	HT	AND	· · · · · · · · · · · · · · · · · · ·	wer	\$1,44 11.44 3,4* \$5,50	50 00 00 00 00 10 10 10 36 37 76 68' 03 15	\$2,830 06 2,328 92 844 17  \$5,503 16  \$10,591 03 25,569 11 33,693 73 52,900 84 3,023 95 7,303 50 7,456 25 3,676 78
Balance of manu Fixture account, Interest paid, Dividends declare Construction cha Depreciation, Balance June 30,  QUINO  Real estate, Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Due for light and Fuel on hand,	1895, . facturing a	CRIC	nt,	HT	AND	· · · · · · · · · · · · · · · · · · ·	wer	\$1,44 11.44 3,4* \$5,50	50 00 00 00 00 00 10 10 10 10 68 37 76 68	\$2,830 06 2,328 92 344 17  \$5,503 16  \$10,691 03 25,569 11 33,693 73 62,900 84 3,023 95 7,303 62 7,466 26 3,676 78 59 25
Balance of manu Fixture account, Interest paid, Dividends declare Construction cha Depreciation, Balance June 30,  QUINO  Real estate, Steam plant, Electric plant, Electric lines, Meters, Transformers, Are lamps, Due for light and Fuel on hand, Carbons on hand	1895, . facturing a	CRIC	nt, .	HT	AND	· · · · · · · · · · · · · · · · · · ·	wer	\$1,44 11.44 3,4* \$5,50	50 00 00 00 00 00 10 10 10 10 68 37 76 68	\$2,830 06 2,328 92 344 17  \$5,503 16  \$10,691 03 25,569 11 33,693 73 62,900 84 3,023 95 7,303 50 7,456 28 3,676 78 59 25 12 00
Balance of manu Fixture account, Interest paid, Dividends declare Construction cha Depreciation, Balance June 30,  QUINO  Real estate, Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Due for light and Fuel on hand, Carbons on hand, Oil and waste on	1895, facturing a	CCCOU	nt,	HT	AND	· · · · · · · · · · · · · · · · · · ·	wer	\$1,44 11.44 3,4* \$5,50	50 00 00 00 00 00 10 10 10 10 68 37 76 68	\$2,830 06 2,328 92 344 17  \$5,503 15  \$10,691 03 25,699 11 33,693 73 52,900 84 3,023 95 7,303 50 7,456 25 3,676 78 59 25 12 00 19 90
Balance of manu Fixture account, Interest paid, Dividends declare Construction cha Depreciation, Balance June 30,  QUINO  Real estate, Steam plant, Electric plant, Electric lines, Meters, Transformers, Are lamps, Due for light and Fuel on hand, Carbons on hand	1895, facturing a	CCCOU	nt,	HT	AND	· · · · · · · · · · · · · · · · · · ·	wer	\$1,44 11.44 3,4* \$5,50	50 00 00 00 00 00 10 10 10 10 68 37 76 68	\$2,830 06 2,328 92 344 17  \$5,503 16  \$10,691 03 25,569 11 33,693 73 62,900 84 3,023 95 7,303 50 7,456 28 3,676 78 59 25 12 00

	GAS	Al	ND	E	LEC	TR	IC	LI	GH	T.	
Other materials	on hand,										
Electric fixtures									• .		
Horses, wagons	, etc.,	•									
Sundry account	s due the	com	oany,								
Office furniture,	, .			•							
Cash on hand,											
Advanced intere	est, .			•	•	•				•	•
Total assets	s, as per b	ooks	of tl	16 CC	mpa	ay,	•	•	•	•	•
				Lu	BILI	TIB8.					
Capital stock,		•				•	•		•		
Notes payable,		•	•	•	•	•	•	•	•	•	•
Unpaid bills,		•	•	•	•	•	•	•	•	•	•
Unpaid dividen	ds, .	•	•	•	•	•	•	•	•	•	•
Total liabil					e cor	npany	7,				
Profit and loss					•			•	•	•	•
		M	[ANU	PA C1	URIN	rg Ac	cou	NT.		Dr.	
Operating expe	nses								<b>8</b> 2	שנע 1, <b>43</b> 7	67
Income from sa							·		•-	-,	••
Balance to prof					•	•	•		1	9,693	58
-		•							_	1 121	25
		Pı	ROFIT	' AN	D Lo	88 A	ccov	NT.	фо	1,131	20
										Dr.	
Balance June 3		•	•	•	•	•	•	•			
Balance of mar	nufacturin	g ac	coun	t,	•	•	•	٠			
Jobbing accoun		•	•	•	•	•	•	•	_		
Interest paid,		•	٠	•	•	•	•	•	-	2,184	
Dividends decla	•	•	•	•	•	•	•	•		3,588	
Other items,		•	•	•	•	•	•	•	•	389	
Balance June 3	0, 1896,	•	•	•	•	•	•	•	_	2,042	
			_				_		\$1	H,204	91
	RAWSO	N I	LIGE	IT A	AND	POV	VER	co	MPA	LNY.	
•	•				Ass	BTS.					
- •		•	•	•	•	•	•	•	•	•	•
Real estate,		•	•	•	•	•	•	•	•	•	•
Steam plant,		•	•	•	•	•	•	•	•	•	•
Steam plant, Electric plant,					_	•			•	•	•
Steam plant, Electric plant, Electric lines,		•	•	•	•						
Steam plant, Electric plant, Electric lines, Meters,		•		:		•	•		•	•	•
Steam plant, Electric plant, Electric lines, Meters, Transformers,	• •	•	•	•	:	:		•		:	•
Steam plant, Electric plant, Electric lines, Meters, . Transformers, Water power,	· · · · · · · · · · · · · · · · · · ·	· · ·	:	•	:	•	:		•	:	•
Steam plant, Electric plant, Electric lines, Meters, Transformers, Water power, Water wheel,	· · · · · · · · · · · · · · · · · · ·	:	:	•	•	•	· ·		:	•	•
Steam plant, Electric plant, Electric lines, Meters, Transformers, Water power, Water wheel, Due for light a		•	•	•		:	:		•	:	•
Steam plant, Electric plant, Electric lines, Meters, Trausformers, Water power, Water wheel, Due for light a Fuel on hand,		•	· · ·	•		:	:	•	•	•	•
Steam plant, Electric plant, Electric lines, Meters, Transformers, Water power, Water wheel, Due for light a Fuel on hand, Oil and waste of	nd power,	•		•				•	•		•
Steam plant, Electric plant, Electric lines, Meters, Transformers, Water power, Water wheel, Due for light a Fuel on hand, Oil and waste of Incandescent la	nd power,	and,	•	•	•			•	•	•	•
Steam plant, Electric plant, Electric lines, Meters, Transformers, Water power, Water wheel, Due for light a Fuel on hand, Oil and waste o Incandescent le Other materiale	nd power, on hand, amps on h	and,		•	•			•	•		
Steam plant, Electric plant, Electric lines, Meters, Transformers, Water power, Water wheel, Due for light a Fuel on hand, Oil and waste o Incandescent le Other materiale Tools on hand,	nd power, on hand, amps on h	and,		•	•			•	:		•
Steam plant, Electric plant, Electric lines, Meters, Transformers, Water power, Water wheel, Due for light a Fuel on hand, Oil and waste of Incandescent Is Other materials Tools on hand, Sundry accoun	and power,	and,	· · · · · · · · · pany		•			•	•		
Steam plant, Electric plant, Electric lines, Meters, Transformers, Water power, Water wheel, Due for light a Fuel on hand, Oil and waste of Incandescent Is Other materials Tools on hand, Sundry account Cash on hand,	and power, on hand, amps on h s on hand,	and,	· · · · · · pany			•	•	•			
Steam plant, Electric plant, Electric lines, Meters, Transformers, Water power, Water wheel, Due for light a Fuel on hand, Oil and waste of Incandescent le Other materiale Tools on hand, Sundry accoun	and power,	and,	· · · · · · · · · pany		•			•	:		

			LIAB	ILITI	ES.					
Capital stock,	•		•							\$25,000 00
Total liabilities, a	s per bo	oks o	f the	comp	an v					\$25,000 00
Profit and loss balance										2,069 04
	•	-		-		-	-			
		[ANUI		DING	۸.	<b>6</b> 0#1				\$27,069 04
	D	LANUI	AUTU	RING	AU	0001	NT.	D	R.	Cæ.
Operating expenses, .			•						16 12	
Income from sale of li	ght and	powe	r,							<b>\$6,887 42</b>
other so	urces,			•						230 04
Balance to profit and	loss,	•		•	•		•	1,8	01 34	
								97.1	17 46	87,117 46
	P	ROPIT	AND	Loss	A	σου	NT.			• •
D 1 - D0 400F								D	P.	CR.
Balance June 30, 1895		•	•	•	•	•	•			\$527 61
Balance of manufactu				•	•	•	•			1,301 84
Wiring and fixture ac			•	•	•	•	٠			240 09
Balance June 80, 1896	, .	•	•	•	•	•	•	\$2,0	69 04	
								\$2.0	69 04	\$2,069 04
		_	-			-		V-/-		<b>V</b> = <b>V</b> ================================
_										
]	ROXBU	JR <b>Y</b>	GAS	LIG	HT	CO	MP	ANY.		
			A	SSETE						
Real estate,										<b>\$116,365</b> 91
Machinery and manui			liance	8.						305,984 69
Street mains and serv				•						396,860 22
Meters,										92,887 60
Due for gas										45,438 77
Purifying materials or	n hand.									147 00
Other materials on ha	nd.									10,757 55
Stoves on hand, .										82,093 25
Patent rights,										50,000 00
Horses, wagons, etc.,										100 00
Sundry accounts due										14,231 08
Cash on hand,		• • • •								2,508 14
Gas on hand,										882 86
<u> </u>										4,629 12
M-4-1										-1 100 007 00
Total assets, as pe	ST DOOK!	OI CB	e con	pany	,	•	•		•	<b>\$1,122,885 69</b>
			T.7.4 =	ILITI	20					
Canital steel			~:==							menn non no
Capital stock, Unpaid bills,	•	•	•	•	•	•	•	•	•	\$600,000 00
Unpaid bills, Deposits,	•	•	•	•	•	•	•	• •	•	92,046 18 1,324 00
Amounts due from the	A @@		ot inc	Jade	· lah		•	•	•	383 40
Amounts due nom in	ө сошр	uy, u	OF INC	JILLIO	1 BU	ove,	•	•	•	300 10
Total liabilities, a					any,	,	•			\$693,753 58
Profit and loss balance	θ, .	•	•	•	•	•	•			429,132 11
										\$1,122,885 69
	1.	LANUF			۸.	<b>A</b> 0				#-,120,000 UB
		LANUF	AUTU	en e	ΑÜ	UUUI	NT.	Di	t.	Cr.
Operating expenses, .	•	•						\$168,1		
Income from sale of g					,			- ,-		\$216,538 41
Balance to profit and							•	48,3	39 43	
-								0014 5	90 41	0010 500 41
								<b>\$210,0</b>	12 00	<b>\$</b> 216, <b>5</b> 88 <b>4</b> 1

<b>x</b> cvi	GAS	Aì	ND	EL	EC	TRI	C LI	GHT.		[Jan.
		Pi	<b>W</b> FIT	AND	Loss	A OO	OUNT.	Dr.		Cas.
Balance June 30										\$406,188 47
Balance of man	ufacturing	g acc	ount,		•		•			48,389 43
Interest received	d, .									37 21
Rents, .							•			1,517 00
Dividends decla	red, .			•				<b>\$</b> 27,000	00	
Interest received Rents, . Dividends decla Balance June 30	), 1896,	•	•	•	•		•	429,132	11	
								<b>8456.182</b>	11	<b>8456,132</b> 11
								<b>\</b>		<b>4</b> 100 <b>,</b> 100 11
	SALEM	. BL	BCT.				G CO	uranı.		•
Real estate.	SALEM	. ISI	BCT.		SSBTS		G CO	TANI.		948 000 00
Real estate, Steam plant.			BCI.		58 BT8		•			
Steam plant,					58 B T S		:			84,000 0
Steam plant, Electric plant,	· ·				58BT8		•			84,000 00 29,000 00
Steam plant, Electric plant, Electric lines,	· ·			<b>A</b>	SSBTS	•	:			84,000 00 29,000 00 73,000 00
Steam plant, Electric plant, Electric lines, Meters,	· · · · · · · · · · · · · · · · · · ·	•			SSBTS		•			84,000 00 29,000 00 73,000 00 11,000 0
Steam plant, Electric plant, Electric lines,	· · · · · · · · · · · · · · · · · · ·	•			58 BT8	•	:			84,000 00 29,000 00 73,000 00 11,000 00 12,000 0
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Due for light an					58 ET8	•	:			84,000 00 29,000 00 73,000 00 11,000 00 12,000 00
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Due for light an Fuel on hand.					58 BT8					84,000 00 29,000 00 73,000 00 11,000 00 12,000 00 6,000 00 7,890 00
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Due for light an Fuel on hand, Carbons on hand				A.	58 BT8				•	84,000 00 29,000 00 73,000 00 11,000 00 12,000 00 6,000 00 7,890 00 1,530 10
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Due for light an Fuel on hand, Carbons on hand Incandescent lai				A.	58 BT8				•	84,000 00 29,000 00 73,000 00 11,000 00 6,000 00 7,890 00 1,580 13
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Due for light an Fuel on hand, Carbons on hand Incandescent lai				A.	58 BT8				•	84,000 00 29,000 00 73,000 00 11,000 00 12,000 00 6,000 00 7,890 00 1,530 13 134 9
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Due for light an Fuel on hand, Carbons on hand	od power,				58 BT8				•	84,000 00 29,000 00 73,000 00 11,000 00 6,000 00 7,890 00 1,530 10 1,444 20 80 20
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Due for light an Fuel on hand, Carbons on hand, Incandescent lat Globes on hand, other materials Horses, wagons	d, mps on hs			<b>A</b>	58 BTS				•	84,000 00 29,000 00 73,000 00 11,000 00 6,000 00 7,890 00 1,530 13 134 9 1,444 29 80 22,139 22
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Due for light an Fuel on hand, Carbons on hand, Incandescent lat Globes on hand, other materials Horses, wagons	d, mps on hs			<b>A</b>	58 BT8				•	84,000 00 29,000 00 73,000 00 11,000 00 6,000 00 7,890 00 1,530 13 134 90 1,444 22 80 22 2,139 22
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Due for light an Fuel on hand, Carbons on han Incandescent lau Globes on hand, Other materials	d,			<b>A</b>	58 BT8				•	\$46,000 00 84,000 00 29,000 00 73,000 00 11,000 00 6,000 00 7,890 00 1,530 13 134 90 1,444 20 80 22 2,139 20 650 00 412 652 2,990 65

Total assets, as per books of the company,			<b>2285,233</b> 01

Capital stock												<b>8</b> 175,000 0
Bonds issued.		•										50,000 0
Notes payable, .										•		27,500 0
Unpaid bills, .										•		1,087 7
Deposits,						•						276 3
Reserved fund, .												13,765 5
Sinking fund inco	ome,	•	•	•	•	•	•	•	•	•	•	460 9
Total liabiliti	es, as	per b	ooks	of t	he co	mpar	1 <b>y</b> ,					\$268,090 5
Profit and loss be	lance						•					17.142 4

LIABILITIES.

							<b>\$285,233</b> 01
	MAN	UPAC'	TURIN	rg A	.COOUNT	D2.	Ca.
Operating expenses, .		•	•	•	•	. \$59,512 62	

\$90,241 60 \$90,241 60

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		_			_							
		Pı	ROI	IT AN	no Lo	088 <i>E</i>	CCOU	NT.	Da.		CR.	
Balance June 30, 189	95,	•		•							\$4,670	73
Balance of manufac	turir	g acc	юa	nt,							30,728	98
Jobbing account,		•									1,663	
Reserved fund, .				•							9,226	01
Other items of incon	ne,	•		•							· 62	18
Interest paid, .				•					<b>\$</b> 3,947	72		
Dividends declared,	•								10,500	00		
Depreciation, .	•					•			7,261	54		
Reserved fund, .	•							•	7,500	00		
Balance June 30, 189	96,		•				•		17,142	47		
									\$46,351		\$46,351	— 79
									<b>@</b> ±0,001	10	<b>\$</b> 20,001	10
	S	ALE!	M	GA8	LIG	нт	COM	PAN	<b>Y</b> .			
				A	.88BT	8.						
Real estate, .	•		•	•		•	•				\$135,041	
Machinery and man			g a	ppllan	C08,	•	•	•		•	56,500	
Street mains, .	•	•	•	•	•	•		•		•	113,599	
Meters,	•	•	•	•	•	•	•			•	13,965	
Due for gas, .	•	•	•	•	•	•	•	•		•	10,496	
Coal on hand, . Coke on hand, . Tar on hand, . Enrichers on hand, Purifying materials	•	•	•	•	•	•	•			•	<b>2,</b> 182	
Coke on hand, .	•	•		•	•	•	•	•			920	
Tar on hand, .	•	•	•	•		•	•	•		•	1,840	
Enrichers on hand,	•	•	•	•	•	•	•	•	• •	•	80	
Purifying materials	on h	and,	•	•	•	•	•			•	65	
Other materials on h	and	, .	•		•	•	•	•		•	2,731	93
Stoves on hand,	•	•	•	•	•	•	•	٠.		•	1,115	
Other materials on h Stoves on hand, Horses, wagons, etc. Sundry accounts du	٠,	•	•		•	•	•	•		•	500	
Sundry accounts du	e the	com	paı	ıy,.	•	•	•	•		•	137	
Omce furniture,	•	•	•	•	•	•	•	•		•	200	
Cash on hand, .	•	•	•	•	•	•	•	•		•	15,811	
Investments, .	•	•	•	•	•	•	• ·	•		•	3,463	00
Total assets, as	per l	books	of	the co	ompa	ny,				•	\$358,649	39
				Lı.	ABIL	ITIRS	<b>.</b>					
Capital stock, .											\$300,000	00
Deposits,	•	:	:	•	•	•	•	•	•	•	432	
Amounts due from t	he c			not i	nclud	led a	bove,	:	: :	:	2,881	
											<b></b>	
Total liabilities,						пħ <b>я</b> р	y,	•	• •	•	<b>\$3</b> 03,313	
Profit and loss balar	ice,	•	•	•	•	•	•	•	• •	•	55,335	8Z
		<b>3</b> .4		T PAC	WT7 22 7 5	W.O. A		ve			<b>\$</b> 358,649	39
Onesettan serven			.A.	OFAU	1 O R.1	NG A	LUUUU	14.3+	Dr.		CR.	
Operating expenses,			•	•	•	•	•	•	\$43,584	IU	004.000	70
Income from sale of			•	•	•	•	•	•			\$64,238	
residu			•	•	•	•	•	•	Om 2000		7,065	62
Balance to profit and	1 108	8,	•	•	•	•	•	•	27,720	- 31 		
									\$71,304	41	\$71,304	41

xcviii (	JAS A	IND I	ELECTRIC	LIGHT.
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[Jan.

		Profi	T AND	Loss	ACCOUR	IT.	Dz		Cz.
Balance June 3	0. 1895.						D.	•	<b>8</b> 40,612 88
Balance of mar		r account				•			27,720 31
						:			71 44
Interest receive Other items of	income.								130 24
Dividenda decla	ared .		_			•	<b>\$12,000</b>	00	
Fittings accoun	it						595		
Other items.							603	70	
Fittings account Other items, Balance June 3	0. 1896.						65,335	82	
						-			
		_					<b>\$68,534</b>	87	<b>\$68,534</b> 87
	SOMERV	ILLE E	ELEC'	TRIC	LIGHT	CO	MPANY	7.	
			A	88BT8.	ı				
Real estate.									\$24,208 50
								•	55,304 71
Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Due for light at Fuel on hand.								_	65,917 19
Blectric lines.									149,571 77
Meters.									7.289 66
Transformers.									13,925 65
Arc lamps.									25,879 41
Due for light a	nd power,								7,778 33
Fuel on hand,									714 00
Carbons on har	nd, .	• • •							1,524 72
Oil and waste o	on hand,								74 91
Oil and waste of Incandescent la Globes on hand	mps on he	ınd, .			•				669 62
Globes on hand	l, .								57 14
Other materials	on hand,								4,474 67
Other materials Tools on hand, Horses, wagons					٠.				1,200 00
Horses, wagon	s, etc.,								1,164 95
Sundry account	ts due the	company	,						348 66
Office furniture	٠, .								706 58
Case on nand,									3,595 58
Advanced inter	est and in	urance,							1,608 04
Total asset				nnanw					<b>\$366,014</b> 09
10tal asset	a, as per o	OURS OF E	16 (01	upauy	, .	•	• •	•	\$200,014 09
			LIA	BILITI	ES.				
Capital stock,								_	\$200,000 00
Bonds issued,		• • •	•		•			•	30,000 00
Notes payable,									94,700 00
Unpaid bills,									12,824 79
Deposits,									38 33
Interest due bu	t not paid.								250 00
Total liabil Profit and loss	litles, as pe	er books	of the	comp	any,	•		•	<b>\$337,813</b> 12
Profit and loss	balance,	• •	•	•	•	•	• •	•	28,200 97
									\$366,014 09
		MANT	PACTU	RING	Accoun	T.	Dr.		C3L
Operating expe	nses						\$55,028	34	-
Income from s	•						<b>4</b> -5,020	-	283,235 91
	ther source								2 00
Balance to prof							28,209	57	
		•			-				
							\$83,237	91	<b>883,237</b> 91

		_			_						
		Pi	ROPIT	AND	Loss	A	CCOUN.	r.	Di		Cz.
Balance June 30, 189	95.	_	_			_	_		Di	-	\$21,124 67
Balance of manufac			onnt.	•			•				28,209 57
Rents.	B		·	•	•		•				100 00
Rents, Interest paid, .	•		•	•	•		•		\$6,52	98 O.4	100 00
Dividends declared,	•	•	•	•		•	•	:	12,00		
Construction charge	d off	•	•	:	:	•		•	-	6 73	
				:	•	•	•	•	2,1	50	
Balance June 30, 18	98.	•		•	•	•	•	•	28 20	00 97	
Danaico e due ov, 10	σο,	•	•	•	•	•	•	•			
			-		•		<b>—</b> ·		849,4	34 24	<b>\$</b> 49,4 <b>3</b> 4 24
80	OUTH	В	ostc	N G	BAS :	LIG	нт с	OM	PANY		
				A	SSET	3.					
Real estate, .	•	•	•	•	•	•	•				<b>\$200,94</b> 5 76
Machinery, manufa	cturin	g ap	plian	C05 &	nd str	reet	mains	,			299,664 38
Meters,	•	•	•	•	•						31,759 36
Due for gas, .	•	•	•	•			•				21,050 54
Gas on hand, .					•						115 71
Coke on hand,  Purifying materials				•							246 00
Purifying materials	on ha	nd,									76 41
Other materials on l	hand,										1,695 03
											21,252 44
Patent rights, .	:			•							25,000 00
Sundry accounts du	e the	com	pany,								1,472 07
											3,248 03
											1,873 55
Investments, .											20,000 00
Work in process,											
Total assets, as		ooks	of th	e co1	npany	<b>y</b> ,	•				<b>\$</b> 633,653 95
Carthal asaab				LIA	BILIT	ı BB.					<b>6440 000 00</b>
Capital stock, .	•	•	•	•	•	•		•			\$440,000 00
Unpaid bills, .	•	•	•	•	•	•	•	•		•	
Deposits,	•	•	•	•		•	•	•		•	1,094 20
Amounts due from	rue co	mpa	ıny, n	ot in	ciude	d at	bo <b>∀e</b> ,	•		•	55 23
Total liabilities,	as De	r bo	oks o	f the	comp	any	<i>r</i> .				\$463,266 51
Profit and loss balan											170,387 44
		14					CCOUNT				<b>\$</b> 633,65 <b>3</b> 95
			LANUE	AUIC	RING	A	COUNT	r•	Dı	L	CR.
Operating expenses,									\$81,89		
Income from sale of									• •		\$104,175 26
Balance to profit an								•	22,28	2 37	•
-									\$104,17	K 00	0104 175 00
		P	ROFIT	ANI	Los	8 A	.ccoun	T.	φ10±,17	5 <b>2</b> 0	<b>\$</b> 104,175 26
									D	R.	Ca.
Balance June 30, 189		•	•	•	•	•	•	•			\$164,354 70
Balance of manufact				•	•	•	•	•			22,282 37
Rents,	•	•	•	•	•	•	•	•		_	1,418 00
Interest paid, .		•	•	•	•	•	•	•	•	7 63	
Rents, Interest paid, . Dividends declared,	•	•	•	•	•	•	•	•	17,60		
Balance June 30, 189	96,	•	•	•	•	•		•	170,38	7 44	
									\$188,05	5 07	\$188,055 07
						•			¥,-0		A

# SOUTHBRIDGE GAS AND ELECTRIC COMPANY.

A	MC COMIANI.	
Assets. Real estate (gas),		\$5,515 49
Machinery and manufacturing appliances (gas),		1,041 83
Street mains (gas),	• • • •	6,420 66
Meters (gas),	• • •	1,692 42
Meters (gas),		277 69
Tar on hand,		9 00
Enrichers on band,		271 79
Other gas materials on hand,		113 02
		129 43
Real estate (electric),		6,688 70
Steam plant (electric),		15,808 24
	• • •	14,664 44
Electric plant,		14,237 22
Meters (electric),	• • • •	367 06
	• • • •	779 50
Transformers,	• • • •	855 53
Due for electric light and power,		543 75
Corbons on hand		44 00
Oil and waste on hand,		47 28
·		82 75
Incandescent lamps on hand,		229 95
Horses, wagons, etc.,		50 85
		150 50
Office furniture,		260 08
Cash on hand,		200 00
Total assets, as per books of the company, .		\$70,281 18
Liabilities.		
Capital stock,	• • • •	\$50,000 00
Notes payable,		18,500 00
Unpaid bills,		1,186 28
Total liabilities, as per books of the company,		269,686 28
Profit and loss balance,		594 90
I Tolly Bird Tobb Galactory	• • •	
		<b>\$</b> 70,281 18
Manufacturing Accou	NT. Dr.	Ca.
Operating expanses   gas,	. \$3,319 38	~_
Operating expenses, { electric,	9,028 39	
Income from sale of gas,	•	<b>8</b> 3,974 54
residuals,		7 77
sale of electric light and power,	•	11,315 70
( σοο	. 662 93	11,010 10
Balance to profit and loss, { electric,	. 2,287 31	
1 010011109	<u>—'——</u>	
<b>.</b>	<b>\$</b> 15,298 01	<b>\$15,298 01</b>
PROPIT AND LOSS ACCOU	UNT. Dr.	Ca
Balance of gas manufacturing account,		9662 93
Balance of electric manufacturing account,		2,287 31
Interest paid,	. 2992 75	_,,
	•	
Dividends declared.	. 1.230 tm	
Dividends declared,	. 1,250 00	
Depreciation,	. 112 59	
•	•	82,950 24

### SOUTH HADLRY FALLS ELECTRIC LIGHT COMPANY.

SOUTH	HADLEY	FA	LL8	EL	ECTH	IC	LIGHT	COM	PAI	IY.	
				A88	BTS.						
Steam plant, .										\$1,249	71
Electric plant, .	• •		:			•	• •		•	5,089	
Electric lines, me						Ċ			·	3,661	
Due for light and	power	•								707	
Incandescent lam	ps on hand,									100	
Other materials of										100	00
Total assets,	ee ner book		ha an							\$10,907	08
I Utal asscus,	me her occar	. O1 C	110 CO	mba	wy,	•	• •	•	•	<b>\$10,807</b>	00
			LIA	BIL	ITIBS.						
Capital stock, .					•					<b>\$</b> 7,000	
Notes payable, .		•	•	•	•				•	8,007	
Unpaid bills, .		•	•	•	•	•		•	•	900	00
Total liabilitie	es, as per bo	oks (	of the	COI	ndany					\$10,907	93
	,					•				<b>4</b> ,	
	•										
	N	LANU	PACT	URI	NG AC	COT	INT.	Dr.		CR.	
Operating expense	es, .     .							<b>\$3,484</b>	03		
Income from sale	of light and	pow	rer,					•		\$4,915	58
Balance to profit	and loss,		•	•	•	•	•	1,431	55		
							•	\$4,915	58	\$4,915	58
	P	ROFI	T ANI	o La	088 A	CCO	UNT.	<b>41,010</b>	•	<b>\$1,010</b>	•
				_				Dr.		Cr.	
Balance of manuf	acturing acc	ount	, .	•	•	•	•			<b>\$1,43</b> 1	55
Interest paid, . Depreclation, .		•	•	•	•	٠	•	\$414			
Depreciation, .		•	•	•	•	•	•	1,017	89		
								\$1,431	55	\$1,431	55
		-				_	•	•		• •	
	SP	ENC	ER	GA	S CO	MP.	ANY.				
				/88 E	TB.						
Real estate (gas),	• •	•	•	•	•	•	•		•	<b>\$22,760</b>	
Machinery and m	anufacturin	g app	plianc	<b>205</b> (	gas),	•	• •		•	77,259	
Street mains (gas	),	•	•	•	•	•	•	• •	•	36,216	
Meters (gas), . Due for gas, .		•	•	•	•	•	•	• •	•	3,704	
		•	•	•	•	٠	•	• •	•	<b>8,47</b> 1 21	
Enrichers on hand Purifying materia	, d	•	•	•	•	•	•	•	•	21 88	
Purifying materia	da on hand.	•	•	•	•	•	•		•	12	
Stoves on hand.				:	•	•	•		•	3,444	
Gas fixtures and	pipe on hane	1,								528	
Gas fixtures and p Real estate (elect	ric), .	•								8,000	
Steam plant (elect	tric)									2,300	00
Electric plant, .			•		•					6,500	
Electric lines, . Arc lamps, .		•	•	•	•		•			5,627	17
Arc lamps, .			•		•	•	•		•	2,500	
Due for electric li	ght and pow	ær,	•	•	•	٠	•		•	434	
Carbons on hand	, , ,	•	•	•	•	٠	•		•	37	
Oil and waste on	nand, .	•	•	•	•	•	•		•	30	00

cii	GAS	ANI	E	CLE	CTR	ic	LIC	HT.		[Jan.
Globes on hand	l <b></b>									<b>\$</b> 6 00
Tools on hand,	•	: :	:	:	:	:	:	: :	:	414 10
Horses, wagons					•					50 00
Sundry accoun			ny,							3,042 74
Office furniture		_	•		•		•			100 00
Total asset	e ee mer t	ooks of	the	compe	ln <del>v</del>					8176,547 97
Profit and loss					· .		:	: :	•	14,585 77
11000 000 1000	DUILUI 00,	•	•	•	•	•	•		·	
			т	IABIL	TTT RE	_				\$191,133 74
Capital stock,						٠.				285,000 00
Bonds issued,										85,000 00
Unpaid bills,										6,093 74
Interest due bu	t not paid	, .		•						15,040 00
Total liabil	ities, as p	er book	s of (	he cor	npan	<b>y</b> ,.				\$191,133 74
		MAI	TUPA	CTURI	NG A	CCOU	NT.	1	)e.	Cr.
Operating expe	∫ g	AS, .						\$8,92	0 05	
Obergrung expe	nece, jej	ectric,			•		•	3,88	5 89	
Income from se				•		•	•			\$11,298 24
	ther sourc					•	•			324 00
80	ale of elec	tric ligh	t and	l powe	er, .	•	•			5,041 13
Balance to prof	it and los	8, } ga	8, .	•	•	•	•	•	2 19	
		( GTE	ctric	, .	•	•	•	1,14	55 24	
		_						\$16,66	33 37	\$16,663 87
		PRO	PIT A	ND L	D88 A	CCOU	NT.	D	Z.	Ca.
Balance June 3	0, 1895,						•	\$13,2	6 75	
Balance of gas	manufact	uring a	ccou	at, .	•		•			<b>\$2,702</b> 19
Balance of elec	tric manu	facturi	ng ac	count,	•	•	•			1,155 24
Rents, .			•	•	•	•	•			770 42
Interest paid,	• •		•	•	•	•	•		18 33	
Depreciation,			•	٠.	•	•	•	44	58 54	14 898 77
Balance June 3	10, 1880,	• •	•	•	•	•	•			14,585 77
								\$19,2	13 62	<b>\$</b> 19,213 62
	(Se	SPF e Unite		FIEL			_			
	SPR	INGFI	ELD	GA8	LIG	нт (	COMI	PANY.		
				A88	ETS.					
Real estate,										\$185,198 44
Machinery and	l manufac	turing	appli	ances,		•				213,164 97
Street mains,				•	•	•	•	•	•	192,936 01
Meters, .			•	•	•	•	•	•	•	36,128 25
Due for gas,			•	•	•	•	•	•	•	14,033 97
Coal on hand,			•	•	•	•	•	•		2,510 10
Coke on hand, Tar on hand,			•	•	•	•	•	•	•	1,119 96 1,500 00
Enrichers on b				•	•	:	:	•	•	750 00
Purifying mate				•		•	•	•	•	624 71
Other material					•	:	:	•	•	3,321 19
21201 III WWW.181	Mend	.,		•	•	•	•	- '	•	

1897.]	PUB	LIC	D	OCI	JM	EN	Т-	- N	o. 35	•	cii	i
Stoves on hand,	•										2683 8	8
Burners on hand											226 7	
Real estate (steat	m)					•					8,536 9	
Real estate (steam Steam plant, . Steam fittings, .	_,,	_									47,639 5	
Steam fittings.	_									_	1,839 9	
Due for steam, .	•	:			•	•	•	•		·	6,632 5	
Fuel on hand (st	eam)	·	•		:		:	:			1,094 5	
Horses, wagons.	etc.	•			•	•	•	•	•	•	1,500 0	
Horses, wagons, Sundry accounts	due the	· comp	env	•	•	•	•	•	• •	:	5,008 2	
Office furniture,	uuo me	сощр	шц,	•	•	•	•	•	• •	•	965 0	
Cash on hand, .	•						:	•		•	14,880 3	
Notes receivable,	•			•	•	:	•	•		•	113 1	
Motes receivable,	•	•	•	•	•	•	•	•		•		_
Total assets,	as per l	books	of th	e con	npan	у.	•	•	• •	•	\$740,408 4	7
				Liab	ILIT	IES.						
Capital stock											<b>2500,000</b> 0	0
Capital stock, . Notes payable, .					:	:				·	60,000 0	
Deposits	_	_	_							-	2,972 0	
Extension reserv	·	•	•			:				•	127,427 6	
Amounts due fro				· ·t inc	Inda	d ah			: :	:	7,683 5	
Amounts due no	ш шос	ошран	iy, 110	)	iuuo	u av	,	•				_
Total liabilit											\$698,083 2	7
Profit and loss be	alance,	•	•							•	42,325 2	:0
											8740,408 4	_
		M	ANTIP	A CTU	RING	A C	COUN	т.			<b>\$</b> 740,400 4	: 6
									Di		Cr.	
Operating expensions Income from sale	ses, .	•		•	•	•	•	•	\$109,84	<b>16</b>		
Income from sale	of gas,	, .		•		•					<b>\$145,325</b> 8	1
resi	duals,	•		•		•	•				20,416 5	7
oth	er sourc	<b>:es</b> ,									300 0	0
Balance to profit	and los	38,							56,190	3 22		
-									0100 04		<b>-100 040 0</b>	_
		Pn	APIT	AND	Tag		COUN	· <b>T</b>	\$100,04	Z 38	\$166,042 3	10
		• • •	OFII		100		COUN	•••	DR		Cr.	
Balance June 30,											\$102,614 4	3
Balance of manu	facturir	ig acco	unt,								56,196 2	2
Interest received	, .										604 2	9
Rents,											1,139 3	9
Rents,	•		• •		:				\$2,58	4 25		
Dividends declar	ed, .								30,00	00 0		
Extension reserv	е, .						•		85,64	4 88		
Balance June 80.	1896.								42,32	5 20		
									<u>:</u> _			_
							_		<b>8</b> 160,55	4 33	\$160,554 3	13
ST	OUGH	TON	GAS	AN	D E	LEC	TRI	C C	OMPAR	YY.		
				A -	REPT	R.						
Real estate (gas)			_	. 23.0	BS BT	·•	_			_	\$5,000 0	10
Machinery and n				lance	R (01	LA).			•		2,528 5	
Street mains (gas					- 18°	/)	•	•	•	•	4,825 0	
Meters (gas), .		•	•	•		•	•	•	•	•	733 6	
Due for gas, .		•	•	•	•	•	•	•		•	228 0	
Enrichers on han		•	•	•	•	•	•	•		•	72 6	
		end	•	•	•	•	•	•	• •	•	59 C	
Other gas materia		æαα,	•	•	•	•	•	•		•	2,900 0	
Steam plant (elec		•	•	•	•	•	•	•		•	•	
Electric plant, .		•	•	•	•	•	•	•		•	1,752 2	
Electric lines, .	•	•		•							5,679 3	שנ

civ	GAS	AND	EL	EC	TRI	C	LIC	ЭНТ	•	[Jan.
Arc lamps, .		•								\$1,675 00
Due for electric lig	tht and p	ower,								309 16
Fuel on hand (ele										129 00
Carbons on hand,										39 00
Oil and waste on l	hand, .									9 90
Other electric mat	erials on	hand,								60 00
Cash on hand, .		•								1,195 60
Notes receivable,						•				73 <b>26</b>
Total assets, s	s per bo	oks of th	е соп	pany	7,	• .	•			\$27,269 46
			LIAE	ILITI	B6.					
Capital stock, .		•	•	•	•	•	•		•	\$24,000 00
Total liabilitie	s, as per	books o	f the	comp	any.					\$24,000 00
Profit and loss bal									•	3,269 46
	•									
		MANUE	A CTT	n ma	Ago	om	<b>T</b> .			<b>\$27,269 46</b>
		DEANUE	AULU	ALNU	2200	·	••	D	L	Cas.
Operating expense	g Sas	, .				•		<b>\$2,63</b>	0 40	
Operating of bened	elec	tric,	•			•		2,40	9 11	
Income from sale	of gas, .	•		•		•				<b>\$3,394</b> 87
sale	of electri	c light a	nd po	WOT,	•	•	•			3,469 92
Balance to profit a	nd loss.	∫ gas,		•		•	•		4 47	
•	•	( electri	c,	•	•	•	•	1,06	0 81	
								\$6,86	1 79	\$6,864 79
	-	PROPIT	AND	Los	s Ao	COU	T.			
Balance Inno 90	905							Dı	-	CB.
Balance June 30, 1 Balance of gas ma				•	•	•	•			\$2,884 18 764 47
Balance of electric					•	•	•			1,060 81
Dividends declared		_	-		•	•	•	81,44	0.00	1,000 01
Balance June 30, 1	•				•		•	3,26		
Dalauco vano oo, i		•	•	•	•	•	•			
						-		<b>\$4,</b> 70	9 46	\$4,709 46
su	BURBA							MPAN	Y.	
		(REVE				BOF	••)			
Real estate, .		_		BBBTE	•		_			<b>\$5,500 00</b>
Steam plant, .	• •									19,252 77
Electric plant, .								. :		11,276 98
Electric lines, .										14,479 18
Meters,		•								3,750 00
Transformers, .										6,500 00
Arc lamps and glo										3,959 00
Due for light, .										5,766 63
Fuel on hand, .										18 25
Carbons on hand,										38 75
Carbons on hand, Oil and waste on l	and, .	•								52 74
Oil and waste on l Incandescent lamp	s on har	ıd, .								90 14
Globes on hand,										2 11
Other materials or	hand, .						•			573 07
Horses, wagons, e	tc., .				•	•	•			344 31
Sundry accounts of	lue the c	ompany,	•	•			•			1 00
Cash on hand, .		•					•			193 94
Notes receivable,		•				•				550 00
Advanced insuran	ce, .	•	•			•	•		•	<b>587</b> 57
Total assets, a	s per boo	oks of th	e con	กอลกา	7.					872,936 44
10101 000000j d	o per oo	01 11		-pun	, ,	-	•	•	•	A12,000 11

ı

				_								•	
				LL	ABILI	TIES	•						
Capital stock,												\$60,000	00
Notes pavable.							٠.					1,900	00
Notes payable, Unpaid bills,												9,466	
Interest due bu	t not paid	1.	-					•				513	
Accrued taxes,		••			-	-	•	-	•			342	
					•	•	•	•	•	•	•		
Total liabil	lities, as p	er b	ooks o	f th	6 CO 11	npan	у,.	•	•	•	•	- \$72,222	
Profit and loss	balance,	•		•	•	•		•	•	•	•	714	35
												872,936	44
			_									\$12,980	**
		1	MANU	PAO1	ru rii	fG A	COOT	NT.				0-	
Operating expe	7.00								•0	Dr. 5,922		CR.	
					•	•	•	•	<b>\$</b> 2	0,822	00	\$25,268	17
Income from s						•	•	•				•	00
0	ther sour	208,	•	•		•	•	•				_	
Balance to pro	nt and 106	8,	•	•	•	•	•	•				651	10
									82	5,922	33	\$25,922	33
			<b>)</b>		T				•-	-,		<b>V</b> ==,-==	
		r	POFIT	MA	ט גע	)86 £	7000	UNT.		Dr.		Cn.	
Balance June 3	0, 1895.											8835	29
Balance of man										<b>8</b> 651	16	•	
Lamp sales,					-		Ċ			<b>*</b>		10	10
Other items of			-	-	-	•		Š				1.029	
Interest paid.		•	·	•	•	Ċ	•	·		509	09	-,	
ALLOCAUDE Pulity		•	•	•	•	•	•	•		714			
Relence Inne	n 1904												
Interest paid, Balance June 3	0, 18 <b>96</b> ,	•	•	•	•	•	•			172	_		
Balance June 3	0, 1896,	•	•	•	•	•	•		-	1,874		\$1,874	60
Balance June 3	0, 1896,	•	•	•	•	•						\$1,874	60
Balance June 3	0, 1896,	•	• -	•	•	•	_					\$1,874	60
Balance June 3	0, 18 <b>96</b> ,	•	• _	•	•							\$1,874	60
	80, 1896, SUBURI		• _		ANI	D PO		R C		1,874	60	\$1,874	60
			• _	нт			 OWE	R C		1,874	60	\$1,874	60
			• _	нт	ANI Bost		OWE	R C		1,874	60	\$1,874	60
			• _	<b>HT</b>	Вовт	on.)	· OWE	R C		1,874	60	\$1,874	60
			• _	<b>HT</b>		on.)	· OWE	R C		1,874	60		
Real estate,	SUBURI		• _	<b>HT</b>	Вовт	on.)		R C		1,874	60	<b>\$</b> 12,158	44
Real estate,	SUBURI	BAN	• _	<b>HT</b>	Вовт	on.)	DWE	R C		1,874	60	\$12,158 43,843	44 00
Real estate, Steam plant, Electric plant,	SUBURI	BAN	• _	<b>HT</b>	Вовт	on.)	DWE	R C		1,874	60	\$12,158 43,843 191,998	44 00 90
Real estate, Steam plant, Electric plant, Electric lines,	SUBURI	BAN	• _	<b>HT</b>	Вовт	on.)	D <b>WE</b>	R C		1,874	60	\$12,158 43,843 191,998 13,979	44 00 90 77
Real estate, Steam plant, Electric plant, Electric lines, Meters.	SUBURI	BAN	LIG	<b>HT</b>	Вовт	on.)	DWE	R C		1,874	60	\$12,158 43,843 191,998 13,979 9,882	44 00 90 77 97
Real estate, Steam plant, Electric plant, Electric lines, Meters.	SUBURI	BAN	LIG	<b>HT</b>	Вовт	on.)	DWE	R C		1,874	60	\$12,158 43,843 191,998 13,979 9,882 972	44 00 90 77 97 65
Real estate, Steam plant, Electric plant, Electric lines, Meters, . Transformers, Arc.lamps.	SUBURI	BAN	LIG	<b>HT</b>	Вовт	on.)		R C		1,874	60	\$12,158 43,843 191,998 13,979 9,882	44 00 90 77 97 65
Real estate, Steam plant, Electric plant, Electric lines, Meters, . Transformers, Arc lamps, Patent rights,	SUBURI		LIG	<b>HT</b>	Вовт	on.)		R C		1,874	60	\$12,158 43,843 191,998 13,979 9,882 972	44 00 90 77 97 65 62
Real estate, Steam plant, Electric plant, Electric lines, Meters, . Transformers, Arc lamps, Patent rights,	SUBURI		LIG	<b>HT</b>	Вовт	on.)		ER C		1,874	60	\$12,158 43,843 191,998 13,979 9,882 972 1,647	44 00 90 77 97 65 62 00
Real estate, Steam plant, Electric plant, Electric lines, Meters, . Transformers, Arc lamps, Patent rights,	SUBURI		LIG	<b>HT</b>	Вовт	on.)		ER C		1,874	60	\$12,158 43,843 191,998 13,979 9,882 972 1,547 75,000	44 00 90 77 85 62 00 27
Real estate, Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Patent rights, Due for light a Fuel on hand,	SUBURI	3AN	LIG:	HT (1	Вовт	on.)		er c		1,874	60	\$12,158 43,843 191,998 13,979 9,882 972 1,647 75,000 10,039	44 00 90 77 97 65 62 00 27 36
Real estate, Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Patent rights, Due for light a Fuel on hand,	SUBURI	3AN	LIG:	HT (1	Вовт	on.)		ER C		1,874	60	\$12,158 43,843 191,998 13,979 9,882 972 1,547 75,000 10,039 62	44 00 90 77 97 65 62 00 27 36 52
Real estate, Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Patent rights, Due for light a Fuel on hand,	SUBURI	3AN	LIG:	HT (1	Вовт	on.)		ER C		1,874	60	\$12,158 43,843 191,998 13,979 9,882 972 1,547 75,000 10,039 62 689 54	44 00 90 77 97 65 62 00 27 36 52 34
Real estate, Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Patent rights, Due for light a Fuel on hand,	SUBURI	3AN	LIG:	HT (1	Вовт	on.)		R C		1,874	60	\$12,158 43,843 191,998 13,979 9,882 972 1,547 75,000 10,039 62 689 54 884	44 00 90 77 97 65 62 00 27 36 52 34 81
Real estate, Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Patent rights, Due for light a Fuel on hand, Carbons on har Oil and waste o Incandescent le Globes on hand	SUBURI	BAN	LIG	HT (1	Вовт	on.)		R C		1,874	60	\$12,158 43,843 191,998 13,979 9,882 972 1,647 75,000 10,039 62 689 54 884 72	44 00 90 77 65 62 00 27 36 52 34 81 47
Real estate, Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Patent rights, Due for light a Fuel on hand, Carbons on han Oil and waste of Incandescent le Globes on hand Other materials	SUBURI	BAN	LIG	HT (1	Bost	on.)	DWE			1,874	60	\$12,158 43,843 191,998 13,979 9,882 972 1,647 75,000 10,039 62 689 64 884 72 2,159	44 00 90 77 85 62 00 27 36 52 34 81 47 13
Real estate, Steam plant, Electric plant, Electric plant, Electric plant, Carbons on hard, Carbons on hard Oil and waste of Incandescent is Globes on hard Other materials Sundry account	SUBURI	BAN	LIG	HT (1	Bost	on.)		: C		1,874	60	\$12,158 43,843 191,998 13,979 9,882 972 1,547 75,000 10,039 62 689 54 884 72 2,159 321	44 00 90 77 85 62 00 27 36 52 34 81 47 13
Real estate, Steam plant, Electric plant, Electric plant, Electric plant, Electric plant, Carbons on hard, Carbons on hard Oil and waste of Incandescent le Globes on hard Other materials Sundry accoun	SUBURI	BAN	LIG		Bost	on.)		ER C		1,874	60	\$12,158 43,843 191,998 13,979 9,882 972 1,547 75,000 10,039 62 689 54 884 72 2,159 321 898	44 00 90 77 97 65 62 00 27 36 52 34 81 47 13 14 45
Real estate, Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Patent rights, Due for light a Fuel on hand, Carbons on hand Oil and waste of Incandescent le Globes on hand Other materials Sundry account Office furniture Cash on hand,	SUBURI	BAN	LIG	HT (1	Bost	on.)		ER C		1,874	60	\$12,158 43,843 191,998 13,979 9,882 972 1,647 75,000 10,039 62 689 54 884 72 2,159 321 898 413	44 00 90 77 97 65 62 00 27 36 52 34 47 13 14 45 29
Real estate, Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Patent rights, Due for light a Fuel on hand, Carbons on han Otl and waste of Incandescent le Globes on hand Other materials Sundry accoun Office furniture Cash on hand, Notes receivable	SUBURI	BAN	LIG	HTT (1	Bost	on.)	DWE	CR C		1,874	60	\$12,158 43,843 191,998 13,979 9,882 972 1,547 75,000 10,039 62 689 54 884 72 2,159 321 898 413 86	44 00 90 77 85 62 00 27 36 52 34 81 47 13 14 45 29 41
Real estate, Steam plant, Electric plant, Electric lines, Meters, Transformers, Arc lamps, Patent rights, Due for light a Fuel on hand, Carbons on hand Oil and waste of Incandescent le Globes on hand Other materials Sundry account Office furniture Cash on hand,	SUBURI	BAN	LIG	HTT (1	Bost	on.)	DWE	CR C		1,874	60	\$12,158 43,843 191,998 13,979 9,882 972 1,647 75,000 10,039 62 689 54 884 72 2,159 321 898 413	44 00 90 77 85 62 00 27 36 52 34 81 47 13 14 45 29 41

Total assets, as per books of the company,

GAS	AND	ELECTRIC	LIGHT.	[Jan.
				L

cvi

				LIA	BILT	TIES.						
Capital stock, .												\$174,400 00
Bonds issued, .			•									103,500 0
Notes payable, .												47,895 2
Inneid hills				•								11,687 3
												2,950 6
nterest due but no Amounts due from	the co	mpa	ny, r	ot in	clud	ed at	ove,	•	•			=
Total liabilitie										_		8348,127 3
Profit and loss bal							•		•			
												<b>8</b> 365,986 1
		M	[ANU	PACT	BIN	G A	ccou	NT.		D-		Cr.
Operating expense	a						_	_	269	Dr. ,439	86	CR.
ncome from sale						-		•	Ψ	,	-	\$70,822 1
other	source	, muu	pow	٠.,	•	•	•	•				11,833 (
Balance to profit a	nd lose	,	•	•	:	•	•	•	13	,215	26	21,000
outainee to pront a		"	•	•	•	•	•	•			_	
		Pı	ROPIT	ANT	T.o	ar A	COOT	NT.	\$82	,655	12	<b>\$82,655</b> 1
										Dr.		Cr.
Balance June 30, 1					•	•	٠	•				\$13,881
Balance of manufa	acturin,	g acc	ount	, •	•	•	•	•				13,215
Other items of inc	ome,	•	•	•	•	•	•	•				913
interest paid, .	•	•	•	•	•	•	•	•	•	),151		
Balance June 30, 1	896,	•	•	•	•	•	•	•		7,858 	78	
									-00	3,010	10	<b>\$28,010</b>
TA	UNTO	ו אכ	ELE(	CTRI	C I	TIGH	ITIN	G C	-			<b>\$20,010</b>
TA.	LUNTO	<b>)N</b> ]	ELE(		C I		 ITIN	g c	-			<b>\$20,010</b>
Real estate, .						T8.			-			<b>\$</b> 16,0 <b>9</b> 5
Real estate, .						TS.			-			\$16.095 29,437
Real estate, . Steam plant, . Electric plant, .	:					T8.			OMP			\$16,095 29,437 39,801
Real estate, .  Steam plant, .  Electric plant, .  Electric lines, met	ers, tra	.nsfo	rmer		arc	TS			OMP			\$16,095 29,437 39,801 24,454
Real estate, .  Steam plant, .  Electric plant, .  Electric lines, met	ers, tra		· · · · ·		arc	TS			OMP			\$16,095 29,437 39,801 24,454 3,159
Geal estate,  Steam plant,  Electric plant,  Blectric lines, met  Due for electric lig  Fuel on hand,	ers, tra		rmer		arc	TS			OMP			\$16,095 29,437 39,801 24,454 3,159
Real estate, Steam plant, Glectric plant, Blectric lines, met Due for electric lig Fuel on hand, Sarbons on hand,	ers, tra		· · · rmer ver,	s and		ts			OMP			\$16,095 29,437 39,801 24,454 3,159 19
Real estate, Steam plant, Glectric plant, Blectric lines, met Due for electric lig Fuel on hand, Sarbons on hand,	ers, tra		· · · rmer ver,	s and		ts			OMP			\$16,095 29,437 39,801 24,454 3,159 19 121 57
Real estate, Steam plant, Glectric plant, Blectric lines, met Due for electric lig Fuel on hand, Carbons on hand, Dil and waste on l Incandescent lam	ers, traght and	insfo	rmer			ts			OMP			\$16,095 29,437 39,801 24,454 3,159 19 121 57
Real estate, Steam plant, Electric plant, Electric lines, met Due for electric lig Fuel on hand, Carbons on hand, Dil and waste on l Incandescent lam Hobes on hand,	ers, tra ght and hand, ps on h	insfo	rmer		. arc	rs lam;			OMP			\$16,095 29,437 39,801 24,454 3,159 19 121 57 196 40
Real estate, Steam plant, Electric plant, Electric lines, met Due for electric lig Carbons on hand, Dil and waste on l Incandescent lam Hobes on hand, Other materials of	ers, tra ght and hand, ps on h		rmer		arc	ts lamp			OMP			\$16,095 29,437 39,801 24,454 3,159 19 121 57 196 40 1,114
Real estate, Steam plant, Electric plant, Electric lines, met Due for electric lig Fuel on hand, Carbons on hand, Oil and waste on l Incandescent lam Globes on hand, Other materials on Horses, wagons,	ers, tra ght and hand, ps on h	insfo	rmer		ASSE arc	ts lamp			OMP			\$16,095 29,437 39,801 24,454 3,159 19 121 57 196 40 1,114 400
Real estate, Steam plant, Electric plant, Electric lines, met Due for electric lig Fuel on hand, Carbons on hand, Dil and waste on l Incandescent lam Globes on hand, Other materials of Horses, wagons, e Sundry accounts	ers, tra ght and hand, ps on h n hand, etc.,		rmeri ver,	and	arc	ts lamp			OMP			\$16,095 29,437 39,801 24,454 3,159 19 121 57 196 40 1,114 400 203
Real estate, Steam plant, Electric plant, Electric lines, met Due for electric lig Fuel on hand, Carbons on hand, Oil and waste on l Incandescent lam Globes on hand, Other materials of Horses, wagons, e Sundry accounts of Cash on hand,	ers, tra ght and hand, ps on h n hand, etc., due the	and,	rmer er,	and	ASSE	TS.			OMP			\$16,095 29,437 39,801 24,454 3,159 19 121 57 196 40 1,114 400 203 4,127
Real estate, Steam plant, Electric plant, Electric lines, met Due for electric lig Fuel on hand, Carbons on hand, Dil and waste on l Incandescent lam Globes on hand, Other materials of Horses, wagons, e Sundry accounts	ers, tra ght and hand, ps on h n hand, etc., due the	and,	rmer er,	and	ASSE	TS.			OMP			\$16,095 29,437 39,801 24,454 3,159 19 121 57 196 40 1,114 400 203 4,127
Real estate, Steam plant, Electric plant, Electric lines, met Due for electric lig Fuel on hand, Carbons on hand, Oil and waste on l Incandescent lam Globes on hand, Other materials of Horses, wagons, e Sundry accounts of Cash on hand,	ers, tra ght and hand, ps on h n hand, etc., due the	and,	rmer er,	A and	arc	TS.			OMP			\$16,095 29,437 39,801 24,454 3,159 19 121 57 196 40 1,114 400 203 4,127
Real estate, Steam plant, Electric plant, Electric lines, met Due for electric lig Fuel on hand, Carbons on hand, Dil and waste on l Incandescent lam Globes on hand, Other materials of Horses, wagons, e Sundry accounts of Cash on hand, Total assets, a	ers, tra ght and hand, ps on h n hand, etc., due the	and,	rmer er,	A and	arc	ts			OMP			\$16,095 29,437 39,801 24,454 3,159 19 121 57 196 40 1,114 400 203 4,127 \$119,228
Real estate, Steam plant, Electric plant, Electric lines, met Due for electric lig Fuel on hand, Carbons on hand, Oil and waste on l Incandescent lam Globes on hand, Other materials of Horses, wagons, Sundry accounts Cash on hand, Total assets, Capital stock, Notes payable,	ers, tra ght and hand, ps on h n hand, etc., due the	and,	rmer er,	A and	arc	lamp			OMP			\$16,095 29,437 39,801 24,454 3,159 19 121 57 196 40 1,114 400 203 4,127 \$119,228
Real estate, Steam plant, Electric plant, Electric lines, met Due for electric lig Fuel on hand, Carbons on hand, Oil and waste on l Incandescent lam Globes on hand, Other materials of Horses, wagons, Sundry accounts Cash on hand, Total assets, Capital stock, Notes payable,	ers, tra ght and hand, ps on h n hand, etc., due the		rmer ver, 	and	ASSE arc	lamp			OMP			\$16,095 29,437 39,801 24,454 3,159 19 121 57 196 40 1,114 400 203 4,127 \$119,228
Real estate, Steam plant, Electric plant, Electric lines, met Due for electric lig Fuel on hand, Oil and waste on l Incandescent lam Globes on hand, Other materials of Horses, wagons, e Sundry accounts of Cash on hand, Total assets, Capital stock, Notes payable, Unpaid bills,	ers, tra ght and hand, ps on h n hand, etc., due the		rmerryer,	s and	ASSE 	lamp			OMP			\$16,095 29,437 39,801 24,454 3,159 19 121 57 196 40 1,114 400 203 4,127 \$119,228
Real estate, Steam plant, Electric plant, Electric lines, met Due for electric lig Fuel on hand, Carbons on hand, Oil and waste on l Incandescent lam Globes on hand, Other materials of Horses, wagons, Sundry accounts Cash on hand, Total assets, Capital stock, Notes payable,	ers, tra ght and hand, ps on h n hand, etc., due the	and,	rmen ver,	A sand	ASSE arc	lamp			OMP			\$16,095 29,437 39,801 24,454 3,159 19 121 57 196 40 1,114 400 203 4,127

		MANU	TPA C	TURIN	ra	A ccot	· INT.			
								r	R.	Cz.
Operating expenses	,			•	•		•	\$26,07	79 <b>94</b>	
Income from sale of	f light s	und pow	er,							<b>\$</b> 32,548 7
Balance to profit an	d loss,	•						6,40	38 79	
	,									
								\$32,5	18 73	<b>\$</b> 32,548 7
		Profi	T A 2	en I.c	188	Acco	nnt.	<b>V</b> ,-		<b>4</b> ,
		1 2011			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		02123	Ď	e.	Cr.
Balance June 30, 18	95, .			•						<b>\$26,759</b> 8
Balance of manufac	turing	account								6,468 7
Wiring, lamp sales,										2,869 7
Interest paid, .		_						21.70	05 34	•
Balance June 80, 18	198		Ī		Ī				92 53	
Dalance vane ou, 10	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	•	•	•	•	•			
								\$36,0	97 87	\$36,097 8
т	י אוי	AUNT	ON.	GAS	LI	снт	COM	<b>I</b> PANY		
•	1113 1.	40111					002		•	
Real estate, .	_		_	Asse	15.	_	_		_	<b>\$26,500</b> 0
Machinery and man	nfa.	dna ar	nlfe∽		•	•	•	• •	•	53,500 0
_			-	1008,	•	•	•		•	18,129 7
Due for gas,			•	•	•	•	•		•	•
Coal on hand, .		•	•	•	•	•	•		•	1,386 (
•		•	•	•	•	•	•		•	105 (
Tar on hand, .		•	•	•	•	•	•		•	577 6
Enrichers on hand,				•	•	-	•		•	27 4
Purifying materials	on har	ıd, .	•	•	•				•	347 6
Other materials on	hand, .			•		•				224 (
Stoves on hand,									•	473 4
Fixtures on hand,										2,058 4
-										24 (
Lungren lamps,	• •									60 (
Sundry accounts de	a the c	การกา	<b>.</b>	-		_				2,526 6
Sundry accounts du Cash on hand, .		ompun,	,,	•	٠	•	•			10,987 2
Cash on hand, .		•	•	•	•	•	•	•	•	
Total assets, as	per bo	oks of t	he c	ompa	ny,	•	•		•	\$111,927 0
			Lı	ABIL	ITIE	8.				
Capital stock, .	_		_	_			_			\$80,000 (
Deposits,	•	•	:	•	•	•	•		•	161 (
zoposite,		•	•	•	•	•	•		•	101
Total liabilities	00 ma-	hook-	~# +1							\$80,161
							•	• •	•	31,766
Profit and loss bala	nce, .	•	•	•	•	•	•		•	31,700 0
										\$111,927
,		MANT	PAC	TURII	4G	A000t	INT.	n	R.	CR.
Operating expenses								844,2		
Income from sale of			Ċ	·	•	•	•	W		\$60,871 0
residu				•	•	•	•			6,326 0
		•	٠	•	•	•	•			•
	sources	•	•	•	•	•	•	00.5		128 4
Balance to profit an	d loss,	•	•	•	•	•	•	23,10	1 78	
								\$67,82	25 59	\$67,325 5

	۰	٠	
AV	1	1	

# eviii GAS AND ELECTRIC LIGHT.

Jan.

	P	OFIT	AND	Los	s Ac	OOUR	T.	DR.	Cz.	
Balance June 30, 1895,									\$32,023	39
Balance of manufacturing	acco	unt,							23,101	78
Rents,									159	45
Dividends declared, .								<b>\$8,000 00</b>		
Construction charged off,								15,158 38		
Depreciation,								360 20		
Balance June 30, 1896,		•					•	31,766 04		
								\$55,284 62	\$55,284	62

### TURNER'S FALLS.

(See Franklin Electric Light Company.)

# UNION RLECTRIC LIGHT COMPANY. (FRANKLIN.)

### Assets.

					-	C'BRR.	18.						
Real estate,	•												\$4,833 50
Steam plant,													12,191 45
Electric plant,							•						7,907 30
Electric lines,										•			26,921 46
Meters, .		•									•		2,050 49
Transformers,	•									•	•		3,669 92
Arc lamps,	•	•			•								2,937 90
Due for light as	nd po	wer,						•				•	2,184 74
Fuel on hand,													135 00
Carbons on har	ıd,								•				30 00
Oil and waste o	n har	ıd,											17 00
Incandescent la	mps	on he	ınd,										38 00
Globes on hand	٠, -												23 00
Other materials	on b	and,											1,030 14
Electric fixture	s and	tool	s on	hane	i,								1,196 07
Sundry account	ts due	the	com	pany	, int	erest	and :	taxes	une	cpire	ı,		224 34
Office furniture	•			•	•					٠.			86 86
Cash on hand,	•												579 86
Notes receivab	le,												118 18
<b></b>													
Total asset	8, <b>8</b> 8 )	per b	OOK	of t	he co	mpa	ny,	•	•	•	•	•	<b>\$66,175 21</b>
					Lı	ABIL	TI ES	•					
Capital stock,													\$20,000 00
Bonds issued,													30,000 00
Notes payable													10,000 90
Unpaid bills,													4,164 50
Unpaid divides	nds,												300 00
Interest due bu	ıt not	paid	١, .										450 00
Total liabi	litioa		ar h	~~be	of th		nnan	-					\$64,914 50
Profit and loss			61 D				пъвп	J, ·	:	•	•	•	1.260 71
I TONE AND 1088	Jaiai	100,	•	•	•	•	•	•	•	•	•	•	1,200 11
													\$66,175 21

	Mass				A 000	****			
					Acco	UNT.	Dr.		Cz.
Operating expenses, .		•					\$9,190	17	
Income from sale of light	and pow	er,				•			\$11,568 49
other source	8, .								60 00
Balance to profit and loss,	•						2,438	32	
							A11 c00		<b>A11</b> 600 40
	Propit	4 807			A 0001	*****	\$11,628	49	<b>\$</b> 11,628 <b>49</b>
	I ROFII	AND	100	00	AUUU	UNI.	Dr.		C'R.
Balance June 30, 1895,									<b>\$852 74</b>
Balance of manufacturing	account,								2,438 32
Wiring and supplies accou	nt, .								1,230 05
Interest paid,					•		\$2,060	40	
		•	•		•	•	1,200		
Balance June 30, 1896,		•	•	٠	•	•	1,260	71	
							\$4,521	11	\$4,521 11
							<b>V</b> 1,021	••	<b>V</b> 1,021 11
TIMION	ED ELE	ОТЪ	10	T 7/	O EU TO	00M	DANW		
UNIT		_				COM	FANI.		
	(	SPRI	•		.D.)				
Real estate,	_	. A	.88R?	TB.					\$117,788 06
Steam plant		•	•	•	•	:	: :	•	134,995 99
Riectric plant.	• •		•	•	•	•	•	•	204,800 45
Riectric lines.	• •	:	:	•	÷	:	: :	•	142,446 03
Meters.					·	-	: :	•	15,666 13
Transformers									20,012 48
Due for light and power.									20,462 73
Electric plant,									925 22
Carbons on hand,									718 36
Carbons on hand, . Incandescent lamps on ha	nd, .								2,126 16
Globes on hand, .									459 <b>36</b>
Globes on hand, . Other materials on hand,									1,000 00
Motors on hand, .									17,614 90
Motors on hand, Horses, wagons, etc.,									694 00
Sundry accounts due the	company,	•							13,907 98
Office furniture, .					•			•	590 00
Cash on hand,			•		•	•			502 84
Notes receivable, .		•	•	•				•	12,000 00
Investments,		•	•	•	•	•			134,579 00
Total assets, as per bo	noke of th	e cor	ทกลา	n▼.		_			\$841,199 69
			<b>F</b>	,		•	• •	٠	<b>Q</b> 011,100 00
		Liai	BIJ.J'	TIR	8.				
Capital stock,									\$500,000 00
Notes payable									178,300 00
Depreciation fund, .									125,000 00
Amounts due from the con	mpany, n	ot in	cl <b>ud</b>	ed :	above,			•	14,053 92
Total liabilities, as pe	r books o	f the	com	ne	nv.				8817,353 92
Profit and loss balance,				, pa	цу,.	•	• •	•	23,845 77
a come man man construct,	•	•	•	•	•	•	• •	•	20,010 11
	M				A ac				\$841,199 69
	MANUI	AUTU	KIN		a.ccot	MT.	Dz.		CR.
Operating expenses, .							\$95,673	46	
Income from sale of light		er,							\$174,084 68
other sources	-								271 88
Balance to profit and loss,							78,683	10	
							9174 944	<u> </u>	0174 256 EG
•							\$174,856	υO	\$174,356 56

	Provi	IT ANI	LORS	Anco	mwr.			
						Dr.	,	Cas.
Balance June 30, 1895,		•			•			<b>\$10,921 12</b>
Balance of manufacturing	accoun	t, .						78,683 10
Rents,					•			675 00
Other items of income.								19 06
Interest paid,						\$10,72	53	
Dividends declared, . Depreciation fund, . Other items, . Balance June 30, 1896,						30,000	00	
Depreciation fund		:				25,000		
Other items.		_				•	97	
Balance June 30, 1896.		-		_		23,84	-	
Dalanco Vano oo, 1000,	•	•	•	•	•	890,296		\$90,298 27
						фострос	, 24	₩90,280 ZI
UXBRIDGE AN	D NO	RTHE	RIDG	B BI	LECTI	RIC CO	MPA	NY.
		A	88 B T 8 .					
Real estate,		•		•	•	•	•	<b>\$8,262</b> 79
Steam plant,		•					•	12,480 13
Electric plant,					•			11 <b>,563</b> 71
Electric lines, transformer	rs and a	rc lam	pė					37,319 43
Meters,			•					1,606 32
Due for light and power,		_			_		_	2,259 76
Fuel on hand,		·						62 00
Carbons on hand	• •	•				• •	•	52 00
Oil and wests on hand	• •	•		•	•		•	104 00
Carbons on hand, Oil and waste on hand, Incandescent lamps on ha		•		•	•		•	90 00
incandescent lamps on na	na, .	•		•	•		•	
Globes on hand,		•		•	•		•	10 00
Other materials on hand,		•		•	•		•	841 46
Horses, wagons, etc.,	• •	•		•	•		•	624 06
Office furniture,		•			•			58 53
Cash on hand,		•		•	•		•	258 43
Total assets, as per be	ooks of t	the cor	npany	, .	•		•	<b>\$</b> 75,592 62
		Lia	BILITI	E8.				
Capital stock,								239,300 00
				_				30,583 98
		•		_				1,989 44
•				•			•	
Total liabilities, as pe	r books	of the	compa	ıny,.				\$71,873 42
Profit and loss balance,		•		•	•		•	3,719 20
								875,592 62
	MANU	PACTU	RING	ACCO	UNT.	Dı		Ca.
Operating expenses, .		_			_	\$9,054		-
Income from sale of light		rer		•	•	<b>Q</b> 0,00.	. ••	\$11,998 34
Balance to profit and loss,			: :	•	•	2,943	71	A11,000 01
Dalance to profit and loss,	•	•		•	•	2,510		
	Profi	T AND	Toes	A cco	17 MPP	\$11,999	34	\$11,998 34
	LAUFI		-V00	AUUU	VAI.	Dı	t.	CIL
Balance June 30, 1895,					•			\$2,347 61
Balance of manufacturing	account	t, .						2,943 71
Jobbing account, .								87 77
Interest paid						<b>\$1,659</b>	89	
Balance June 30, 1896,			: :			3,719		
	•	•	•	•	•			
						25,379	09	25,379 09

# WALTHAM GAS LIGHT COMPANY.

#### A ARRTA.

Assets.												
Real estate (gas),	_			_		_		_	<b>\$22,994</b>	88		
Machinery and manufactur				N.				•	90,243			
Street mains (gas),			, (San	•,,	•	•		•	51,800			
Meters (gas),	•	•	•	•	•	•	• •	•	6,500			
	:	•	•	•	•	•		•	4,515			
Gas coal on hand,		•	•	•	•			•	1,015			
Coke on hand	•	•	•	•	•	•		•	27			
Coke on hand,	•	•	•	•	•	•		•	512			
Parifying metarials on hen		•	•	•	•	•		•	135			
Other gas materials on han	٠, ٠	•	•	•	•	•		•				
Cenci Rus materials on hati	ıu, .	•	•	•	•	•		•	1,039			
Stoves on hand, Gas fixtures on hand, .	•	•	•	•	•	•	•	•	267 220			
	•	•	•	•	•	•	•	•				
		•	• •	1	•	•		•	19,805			
	•	•	•	•	•	•		•	45,717			
	•	•	•	•	•	•		•	43,711			
	•	•	•	•	•	•		•	35,743			
Meters (electric),	•	•	•	•	•	•		•	5,089			
Transformers,	•	•	•	•	•	•	• •	•	6,306			
Artesian well,	•	•	•	•	•	•	• •	•	3,055			
Due for electric light and p	ower,	•	•	•	•	• .	• •	•	5,267			
Fuel on hand (electric), .			•	•	•	•	• •	•	1,115			
Carbons on hand,		•	•	•	•	•		•	81			
Oil and waste on hand,	. •	•	•	•	•	•	• •	•	66			
Incandescent lamps on han	id, .	.•	•	•	•	•		•	140			
Globes on hand, Other electric materials on	. •	•	•	•	•	•		•	26			
Other electric materials on	hand,	•	•	•	•	•		•	1,217	<b>82</b>		
Horses, wagons, etc., .		•	•	•	•	•		•	386			
Sundry accounts due the c		•	•	•	•	• '		•	1,621			
•	•	•	•	•		•		•	1,280	87		
Cash on hand,	•	•						•	65	99		
Total assets, as per boo	aka af ti	ha <b>a</b> on	mene						\$349,960	01		
Total abboto, as per our	DES OF W	10 0011	hen	•	•	•	• •	•	<b>0</b> 020,000	01		
		LIAB	ILITI	ES.								
Capital stock,	_	_			_				\$140,000	ΔO		
_ `	·	•	• •	•	•	•	• •	•	50,000			
Notes payable,	·	:		•	•	•	• •	•	60,000			
				•	•	•	• •	•				
Total liabilities, as per	books o	f the	omp	any,					\$250,000	00		
Profit and loss balance, .									99,960	81		
									0040.000			
									<b>\$349,9</b> 60	91		
	MANU	PACTU	RING	Acc	COUN	T.	Di		Cr.			
C (gas					_	_	<b>\$29,</b> 09		C R.			
Operating expenses, { gas, elec	tric.						38,64					
Income from sale of gas, .		:				•	,01	- 51	<b>\$39,678</b>	48		
residuals, .		:	-	<del>-</del>	•				4,090			
sale of electric			War		•	•			41,463			
	( par	PO		•	•	•	14,67	R 28	41,400	91		
Balance to profit and loss,	{ gas, electi	ic.			•	:		226				
	. 01000	٠٠,	•	•	•	•						
							\$85,23	3 30	\$85,233	<b>30</b>		

ı		an	
ı	·	uв	•

	Pı	ROPIT	AND	Los	18 .	Acc	OUNT.				
								Dn	•	Ca.	
	•	•	•	•	•	•	•			<b>\$97,</b> 510 10	
Balance of gas manufactu	_				•		•			14,676 3	
Balance of electric manufa	actu	ring a	ccou	nt,			•			2,822 2	6
Jobbing account, .							•			45 3	4
Interest paid,	•						•	<b>\$</b> 5,501	90		
Dividends declared, . Depreciation, . Other items,		•				٠.		8,400	00		
Depreciation,			•					364	95		
Other items,	•							826	46		
Balance June 30, 1896,								99,960	81		
•								8115,064	12	\$115,054 1	2
		_						<b>V</b> 110(000	-	<b>Q</b> 110,001	_
VI .	AR	E E	LEC'	TRIC	9	CON	(PAN	Y.			
			A	88 ET	в.					_	
Real estate,	•	•	•	•	•	•	•		•	<b>\$</b> 6,630 2	
Steam plant,	•	•			•		•			7,705 4	
Electric plant,							•		•	6,981 4	6
Electric lines, meters, tran				arc l	am	ıps,			•	20,285 9	I
Due for light and power,	•	•		•						642 4	7
Fuel on hand,		•								285 0	0
Fuel on hand, Carbons on hand, .										31 6	1
Carbons on hand, Oil and waste on hand, Incandescent lamps on ha Globes on hand, Other materials on hand, Sundry accounts due the c Office furniture and tools,							٠.			34 5	1
Incandescent lamps on ha	nd,		•							60 7	2
Globes on hand.										3 7	
Other materials on hand.										183 5	2
Sundry accounts due the	:omi	any.								14 0	
Office furniture and tools.										256 8	
Cash on hand,	_	_	•				-			414 7	
Insurance,			•	-		Ī	-		-	68 0	
Induitance, i i	•	•	•	•	•	•	•	•	٠		-
Total assets, as per bo	oks	of the	е соп	pan	y,	•	•	• •	•	<b>\$43,598</b> 0	9
			Liab	ILIT	I B 8	<b>3.</b>					
Capital stock,										\$27,800 0	0
Notes payable,										13,100 0	0
_ '.''										605 8	
·											-
Total liabilities, as per						ıy, .	•		•	841,505 8	
Profit and loss balance,	•	•	•	•	•	•	•		•	2,092 2	D -
	M	ANUP	ACTU	RING		\cco	UNT.			<b>\$</b> 43,598 0	9
							-	Di	_	Ca-	
Operating expenses, .	•	•	•	•	•	•	•	<b>\$</b> 5,709	57		
Income from sale of light			r,		٠	•	•			<b>\$</b> 8,332 5	ŧ
Balance to profit and loss,		•	•	•	•		•	2,622	97		
								\$8,332	54	88,332 5	-
	Pτ	TITO	AND	Los	8 4	Acco	DUNT.	<b>ф</b> 0,002	~3	<b>\$0,004</b> 0	E
					- •			Da		Ca.	
Balance June 30, 1895,			•			•				\$1,595 10	)
Balance of manufacturing	acc	ount,	•							2,622 9	ľ
Interest paid,								<b>\$</b> 735	87		
Dividends declared, .								1,390	00		
Balance June 30, 1896,				•				2,092			
								\$4,218	υ7	\$4,218 07	

\$14,812 87 \$14,812 87

WEBSTER ELECTRIC COMPANY.													
					A88B	rs.							
Real estate (gas)												88,500	00
Machinery and n					C68 (	ζ <b>A</b> 8),						10,322	91
Street mains (ga												10,363	55
Meters (gas),												2,257	03
Due for gas, Gas coal on hand												747	68
Gas coal on hand			•									108	75
Coke on hand.					•							40 (	00
Tar on hand.												75	00
Gas on hand,												25	00
Cas coal on hand, Cas on hand, Gas on hand, Stoves on hand, Gas fixtures on l Real estate (elec												49	74
Gas fixtures on l Real estate (elec Steam plant (ele Electric plant, Electric lines, Maters (electric)	hand,					•					•	83	-
Real estate (elec	tric),				• '	•						9,920	34
Steam plant (ele	ctric),				•							11,000	
Electric plant,											• .	14,000	
Electric lines,												4,568	
Meters (electric)	, .											423	70
Transformers,										•		1,500	00
Meters (electric) Transformers, Arc lamps,												3,000	00
Arc lamps, Due for electric	light and	i pov	ver,									1,202	
												189	
Carbons on hand	l, .										•	41 :	
Oil and waste on	hand,									•	•	14	
Incandescent lan	nps on h	and,										123	
Globes on hand,	•		•							•	•	30	06
Fuel on hand (el Carbons on hand Oil and waste on Incandescent lan Globes on hand, Other electric manufacture	aterials (	on h	and,								•	262	-
Office furniture,			•								•	148	26
Cash on hand, .										•	•	18	27
Investments											•	2,400	00
Total assets,	as per t	ook	s of th	e co	mpa	oy,						\$81,415	<u></u>
				Lı.	ABILI	TIES.							
Capital stock,						•	•					\$45,000	
Bonds issued,								•		•	•	30,000	
Notes payable,												3,800	
Unpaid bills,		•		•	•	•	•	•	•	•	•	94	_
Total liabilit	ies, as p	er b	ooks c	of th	e con	npany	7,		•	:	•	<b>\$</b> 78,894	
Profit and loss b											•	2,521	78
												\$81,415	<del></del>
		1	MANU	FAC	rurin	o A	coou	NT.		Dz.		Cr.	
	( ~	9.6	_				_			3,336	86	٠	
Operating expen	ses, } 5	, lectr	Ic,		•				•	6,568			
Income from sel	a of oes		,	•	•	•		·		-,		\$4,518	00
Income from sal	o or gas, idnele		•	•	•	•						279	
oth	AT SOUT	es (	TRR).					•				32	50
en!	a of alec	tric i	ight s	ınd	DOWA	r						9,982	42
		(	gas.			.,.				1,493	59 、	•	
sale Balance to profit	and los	6, }	electi	ic,	•		•	•		<b>3,4</b> 13			_

	~ . ~	4 3770	TT DOMNTO	TIOTTO
riv	(+AS	AND	ELECTRIC	LIGHT.

1	IJ		n
- 1	v	a	ш

	•	
CX	11	

		P	ROPIT	AND	Loss	Acc	COUNT	r.			
D-1 7 6	0 100F								D	R.	Cal.
Balance June 8		•.	•	• .	•	•	•	•			\$8,759 53
Balance of gas						•	•	•			1,493 59
Balance of elec		actu	iring a	ccou	nt,		•	•			3,413 54
Wiring accoun	t, .		•	•	•	•	•	•			36 22
			•	•		•	•	•	\$2,02	23 90	
Dividends decl	ared, .	•	•	•				•	67	75 00	
Depreciation,			•	•			•	•	8,34	18 <b>4</b> 0	
Other items,									12	8 80	
Depreciation, Other items, Balance June 3	0, 1896,								2,52	21 78	
									\$13,70	2 88	\$13,702 88
			_				_		• ,		<b>V</b> - <b>P</b>
WESTBO	ROUGH	EL	ECTR	IC :	LIGH	T A	ND	PO'	WER	COM	PANY.
				A	SBRTS						
Real estate.						_				_	25,855 06
Steam plant,	: :	•	•	•	•	•	•	•		. •	7,212 43
Electric plant,		•	•	•	•	•	•	•	• •	•	12,345 73
Electric lines,		•	•	•	•	•	•	•		•	15,365 85
			•	•	•	•	•	•		•	•
Meters, .		:	•	•	•	•	•	•		•	2,331 20
Transformers,		•	•	•	•	•	•	•	• •	•	4,064 31
Arc lamps,	• •	•	•	•	•	•	•	•		•	886 22
Patent rights, Due for light a Fuel on hand, Carbons on har	•	•	•	•	•	•	•	•		•	2,500 00
Due for light a	nd power,	•	•	•	•	•	•	•		•	2,592 97
Fuel on hand,		•	•	•	•		•			•	125 00
Carbons on has	nd, .			•						•	19 25
Oil and weate	on hand.	_	_	_							29 60
Incandescent la	mps on ha	ınd,									351 27
Globes on hane	d, .	. ′									12 25
Other material	on band.										761 20
Sundry accoun	te due the	com	nanv.	_						-	988 70
Office furniture		WIII	pauj,	•			•	•		•	165 20
Cash on hand.			:	:	•	•	•	•		•	87 25
•								•	• •	•	855,692 51
Total asset	as, as per u	OUR	B OT MI	ie coi	прапу	,	•	•	• •	•	\$00,032 at
				LIA	BILITI	KS.					
Capital stock,			_	_	_		_	_			825,000 00
Notes paveble		•	•	•	•	-		•		•	19,600 00
Notes payable, Unpaid bills,	• •	•	•	•	•	•	•	•		•	4,651 00
Tratorest 3-s %-		•	•	•	•	•	•	•		•	185 27
Interest due bu				•	•	•	•	•	•	•	
Depreciation for	ana, .	•	•	•	•	•	•	•		•	1,000 00
Total liabi	lities, as p	er b	ooks o	f the	com	anv.					850,436 27
Profit and loss											5,256 24
. 10110 4114 1088		-		-	-	-			-	•	
											<b>\$5</b> 5, <b>692</b> 51

MANUFACTURING ACCOUNT.

Operating expenses,

Balance to profit and loss,

Income from sale of light and power, other sources, . . .

Dr.

\$7,228 12

4,910 67

\$12,138 79

Cz.

\$12,022 15

\$12,138 79

116 64

		Pi	OPIT	AND	Loss	Acc	OUNT.					
Delenes Inna 90 100	N.E.								Dr.		CR.	90
Balance June 30, 189		•	•	•		•	• •				\$4,404 4,910	
Balance of manufac Rents,		_		•	•	•	• •				120	
Jobbing account,			•	•	•		•				572	
Interest paid, .	•	•	•	•			• •		1,248	87	012	41
Dividende declered	•	•	• •	•				•	500			
Dividends declared, Depreciation, . Depreciation fund, Other items, . Balance June 30, 18	•	•	• '	•	•	•	• •		2,000			
Depreciation fund	•	•	•	•	•		• •		1,000			
Other items.	•	•	•	•	•		• •			35		
Balance June 30, 18	96	•		•		•	•		5,256			
<b>January 1</b> 100	.,	•	•	•	•		• •	_				
			_				-	<b>\$</b> 1	10,007	26	<b>\$</b> 10,007	26
	WE	STFI	ELD	GA	s Lic	HT	COM	PAN	Y.			
				A	.88BTS	١.						
Real estate (gas),										•	\$24,618	
Machinery and man	ufac	turing	g app	liance	s (ga	ı),		•	•	•	25,782	
Street mains (gas),			•	•				•	•	•	20,019	
Meters (gas), .	•	•	•	•				•	•	•	2,703	
Due for gas, .	•	•	•	•				•	•	•	4,058	
Gas coal on hand,	•	•	•	•				•	•	•	1,141	
Enrichers on hand, Purifying materials	•	•	•	•				•	•	•	165	
Purifying materials	on h	and,	•	•				•	•	•	90	
			•	•			• •	•	•	•	166	
Gas fixtures on han			•	•			• •	•	•	•	44	
Real estate (electric Steam plant (electric Electric plant, .	),	•	•	•			• •	•	•	•	9,406	_
Steam plant (electric	υ,	•	•	•			• •	•	•	•	6,989	
Riectric lines, .	•	•	•	•			•	•	•	•	6,718	
	•	•	•	•			• •	•	•	•	8,588	68
Meters (electric),			•	•	• •		• •	•	•	٠	1,388	
Transformers, . Arc lamps, .	•	•	•	•			•	•	•	•	3,097	
Arc lamps,  Due for electric light	• • and			•		•	• •	•	•	•	1,764	
Fuel on hand (electr	ia)	POW	JI,	•				•	•	•	342	
			•	•	• •		•	•	•	•	246	
Oil and waste on ha	nd	•	•	•	• •		•	•	•	•	52	
				•	· ·		•	•	•	•	11	_
Globes on hand, Electric supplies on	hand						•	·	:	•		08
Sundry accounts du	the	comi	anv.	•							354	15
Cash on hand,									•	•	338	
Total assets, as	per b	ooks	of th	e con	pany,	, ,			•		<b>\$</b> 118,139	25
				_								
				LIAB	ILITII	<b>38</b> .						
Capital stock, .	•	•	•	•				•	•	•	\$75,000	
Notes payable, .	•	•	•	•		•	•	•	•	•	16,425	
Depreciation fund,	•.	•	•	•	• •	•	•	•	•	•	10,311	41
Total liabilities,	as pe	r boo	ks of	the	compa	ny,	•				<b>\$101,736</b>	
Profit and loss balan	œ,	•		•			•			•	16,402	84
											\$118,139	25
											A110,109	au

GAS	AND	ELECTRIC	LICHT	[Jan.
UAS	AND	FUECTUIC	LIUUI.	Jan.

	1	UKAD	FAC1	TURIN	rg A	ccou	NT.		
								Dr.	Ca.
	gas,				•		•	<b>\$</b> 10,756 09	
operating expenses,	electr	ic,		•				9,001 57	
Income from sale of ga	8, .								<b>\$17,285</b> 67
residuals,									1,135 03
sale of ele	ctric	light :	and p	powe	r, .				13,868 00
Balance to profit and lo	S	gas,						7,664 61	
Dalanco to pront and it	,,,,,	gas, elect	ric,	•	•	•	•	4,866 43	
								<b>\$</b> 32,288 70	<b>\$32,288</b> 70
	P	ROFIT	ANI	Lo	88 A	ccou	NT.	Dr.	Ca.
Balance June 30, 1895,	_	_	_			_	_	<i>D</i> <b>a.</b>	\$8,898 20
Balance of gas manufa	ctorin	or acc	ount		-	•			7,664 61
Balance of electric man		~			-		-		4,866 43
Rents		•			-		-		130 65
Other items of income,	-				-				6,300 00
Interest paid,								\$826 81	0,000
<u>.</u>								5,250 00	
<b>-</b>								4,265 26	
Depreciation fund, .								1,114 98	
Balance June 30, 1896,			•	•	•	•	•	16,402 84	
					`			\$27,859 89	\$27,859 89

cxvi

# WEYMOUTH LIGHT AND POWER COMPANY.

						<b>A88</b> E	T8.						
Real estate,												\$13,153	75
Steam plant,								•	•			15,591	83
Electric plant,		•		:								24,128	44
Electric lines,												68,665	- 11
Meters, .												1,238	69
Transformers,												227	2
Arc lamps,												2,213	47
Due for light a	nd p	ower										4,249	96
Fuel on hand,	•		•									311	57
Carbons on has	ıd,											13	70
Oil and waste o												27	37
Incandescent la	ımpe	on b	and,									156	75
Globes on hand												4	50
Other materials												905	35
Horses, wagon												263	25
Office furniture												551	86
Cash on hand,												309	46
Advanced insu						•				•	•	529	
Total asset		ner l	hanke	of.	the o		n T					2132.541	R5

					_			
Capital stock,		L	IABL	LITIE	18.			<b>\$</b> 50,000 00
Bonds issued,	•	•	•	•	•	•		50,000 00
Notes payable,	•	•	•	•	•	•		18,107 84
Unpaid bills,				•				4,693 64
Interest due but not paid, .						•		1,026 22
Amounts due from the compa			nclu	ied a	bove,			341 96
Total liabilities, as per b	ooks	of th	16 CO1	npan	y,	•		\$124,169 66
Profit and loss balance, .	•	•	•	•	•	•		8,371 89
								\$132,541 55
3	MAD	UPAC1	TURL	NG A	ccou	NT.	Dr.	Cz.
Operating expenses,		_				_	\$17,134 05	
Income from sale of light and		ver.	•	•	•	:	<b>\$17,101 00</b>	\$23,742 80
other sources (	elect	ric).			·	•		138 61
	•	,		·	•		6,747 36	
• • • • • • • • • • • • • • • • • • • •					•			
_							<b>\$23,881 41</b>	\$23,881 41
P	ROP	IT AN	D L	088 /	Accou	'NT.	Dr.	Cr.
Balance June 30, 1895, .								85,548 57
Balance of manufacturing ac	coun	t, .						6,747 36
Interest received,								2 16
Wiring and lamp sales, .								1,273 19
Interest paid,							\$4,100 07	•
Other items,							1,099 32	
Balance June 30, 1896, .							8,371 89	
						•	\$18,571 28	\$13,571 28
WHIT	MAI	4 EI	'EC.	RIC	CO	MPA	NY.	
		•	A88R	T8.				
Profit and loss balance, .	•	•	•	•	•	•		<b>\$</b> 50,113 50
		L	BIL	TIBS.	•			
Capital stock,				•				<b>\$</b> 35,000 00
Bonds issued,		•		•		•		5,536 98
Unpaid bills,	•	•	•	•	•	•		385 17
Interest due but not paid,	•	•	•	•	•	•		4,324 17
Amounts due from the comps	ny,	not ir	aclud	ed al	bove,	•		4,867 18
Total liabilities, as per bo	oks	of the	e con	npan	<b>y</b> ,	•		\$50,113 50
<b>1</b> N	<b>L</b> ant	FACT	URIN	ıg A	ccou	NT.		
		To N						
				,	- ',		Dr.	Cn.
Operating expenses,	٠	•	•	•	•	•	<b>\$7,</b> 135 73	
Income from sale of light and		rer,	•	•	•	•		<b>\$</b> 9,933 21
Balance to profit and loss,	•	•	•	•	•	•	2,797 48	
							\$9,933 21	<b>\$9,933 21</b>

cxviii	GAS	AND	E	LE(	СТЕ	RIC	LI	GHT	r.		[Jan.
PROPIT AND LOSS ACCOUNT.											
		I MOF	I AN	<i>D</i> 100	700 41		м.	D	P.		Car.
Balance June 36			•	•		•		\$1	68 27	7	
Balance of man	ufacturing	g account	٠, ٠	•	•	•	•				<b>\$</b> 2,797 48
Interest paid,			•		•	•	•		139 7:		
Foreclosure,	• •	• •	•	•	•	•	•	51,2	299 0		
Other items,		• •	•	•	•	•	•		3 90	5	50 110 TO
Balance June 3	0, 1896,	• •	•	•	•	•	•			_	50,113 50
	·	-						\$52,9	910 9	8	<b>\$</b> 52,910 98
WHITMAN PLANT.											
(Owned by General Electric Company.)											
Assets.											
Real estate, steam plant, electric plant, electric lines, meters, transformers, arc lamps, patent rights, fuel on hand, carbons on hand, oil and waste on hand, incandescent lamps on hand, globes on hand, other materials on hand, motors on hand, fixtures on hand, horses,											
wagons, etc.,		ccounts d	lue ti	10 CO	mpaı	ıy an	d offi	ce furt	iture	,	<b>\$24,186 06</b>
Cash on hand,			•	•	•	•	•	•	•	•	418 65
Due for electric	light and	power,	•	•	•	•	•	•	•	•	1,183 60
Total asset	s, as per b	ooks of t	he co	mpa	ny,	٠	•		•	•	\$25,788 31
			Lı	ABIL	ITI B8						
Amount due or	account	of plant,	•	•	•	•	•	•	•		\$25,042 42
Total liabi	lities, as p	er books	of th	e con	npan	γ, .					\$25,042 42
Profit and loss	balance,				•	•	•		•	•	745 89
		Man	JPAC'	ruri!	NG A	ccovi	NT.				<b>\$25,788 31</b>
		C	From	Маз	7 9. 1	898.)					
		(-			<b>-</b> , -	.,		1	Dr.		Car.
Operating expe			•	•	•	•	•	\$1,	006 2	0	
Income from s				•	•	•	•			_	\$1,752 09
Balance to pro	fit and los	8, .	•	•	•	•	•		745 8	9	
								\$1,	752 0	9	\$1,752 09
		Prop	IT Al	ND L	088	Locot	NT.		<b>.</b>		~
Balance of ma	nufacturit		n#					•	Dr.		Cm. 8745 89
Balance June 3			10,	•	•	•	•	9.	745 8	19	<b>\$1.20</b> 00
Dalanco Vano	, 1000,		•	•	•	•	•			_	
					-			8	745 8	9	<b>\$745</b> 89
WILLIAMSTOWN GAS COMPANY.											
Assets.											
Real estate,											\$10,454 75
Machinery, ma											18,578 17
Meters, .											843 06
Due for gas,				•		•	•	•		•	401 43
Oil on hand,			•	•	•	•	•	•	•	•	220 50
Wood on hand						•	•	•	•	•	143 25
Other materia				•	•	•	•	•	•	•	564 03
Gas fixtures o	n hand,	• •	•	•	•	•	•	•	•	•	133 40

1007 7	DIID		_			<i>-</i>	_	•				
1897.]	PUB	LIC	D	OC	UN	1EN	T -	— N	o. i	35.		cxix
Horses, wagons,	etc.,											<b>8</b> 75 <b>00</b>
Sundry accounts	due the	comp	any,		•					•		203 29
Cash on hand, .	•	•					•		•		•	163 31
Total assets,	as per b	ooks (	of th	e coi	mpa	ny,			•		•	\$31,780 19
				1.TA	HT1.T	TIES.				-		
Capital stock, .												<b>\$</b> 20,000 00
Bonds issued, .				:	:	:	:	Ċ	:	:	:	10,000 00
Notes payable, .												1,700 00
• •		an baa	<b>L</b> a									<del></del>
Total liabilit Profit and loss be								:	•	•	•	\$31,700 00 80 19
I I OUL AUG 1088 O	manoo,	•	•	•	•	•	•	•	•	•	•	
												<b>\$</b> 31,780 19
		M	LNUF	ACT	URIN	G Ac	COU	NT.	,	Dr.		<b>~</b>
Operating expen	RAR	_		_	_					496	08	Ca.
Income from sale				:	:	:	:	÷	Ψ0,		•••	\$5,123 16
	er sour		•					•				14 00
Balance to profit								•	1,	641	08	
									\$5,	137	16	\$5,137 16
		Pre	TIT	ANI	Lo	88 A	ccou	NT.				_
Balance June 30,	1905								1	Dr.		Cz. \$3,997 05
Balance of man		•	· mnt	•		•	•	•				1,641 08
Rents,		is acc			•	:	•	:				24 46
Fixture account,			•		•							443 46
Interest paid,										600	00	
Interest paid, . Dividends declar	ed, .	•				•			1,	,000	00	
Depreciation, . Balance June 30,	•	•	•		•	•	•	•	4,	,425		
Balauce June 30,	, 1896,	•	•	•	•	•	٠	•		80	19	
									<b>\$</b> 6	,106	05	\$6,106 05
							_					
WINCHE	NDON	ELE	CTR	1C	LIG	HT A	ND	PO	VER	CC	MP	ANY.
					ASS	TO.						
Steem plant				-	a 004	10.						e1 950 76
Steam plant, Electric plant,			•	•	•	•	•	•	•	•	•	\$1,359 76 10,878 46
Riectric lines,		:	:	:	:	:	:			:	•	11,887 85
Meters, .												1,719 59
Transformers,												1,210 00
Arc lamps,				•		•	•		•	•		· 2,330 90
Due for light and						•	•	•	•	•	•	897 84
Carbons on hand	-		•	•	•	•	•	•	•	•	•	24 00
Oil and waste on			•	•	•	•	•	•	•	•	•	11 59
Incandescent lan Globes on hand,		and,	•	•	•	•	•	•	•	•	•	20 82 4 70
Other materials		a on h	and	•	:	:	:	:	:	•	:	302 94
Horses, wagons,				:	•	Ċ	:	:	:	:	Ċ	95 00
Sundry accounts					:	Ċ	:	:	:	:		207 64
Office furniture,		•		•								41 55
Cash on hand,			•					•	•		•	89 52
Unexpired insur	ance,	•	•	•	•	•	•	•	•	•	•	36 48
Total assets,	as per	books	of th	e co	mpa	ny,	•	•	•	•	•	\$31,118 64

GAS	AND	ELECTRIC	LIGHT.	Jan.
CILLO		DISCIMO	TWOILT.	

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				L	ABIL	ITIR	B.					
Capital stock, . Bonds issued, . Notes payable, .												\$12,000 OC
Bonds issued,												12,000 00
Notes payable, .				:								6,000 00
Unpaid bills												319 05
Interest due but not	paid	, .	•	•	•	•	•	•	•	•	•	120 0
Total liabilities,	as p	er b	ooks	of th	e coi	m pan	<b>y.</b> .					<b>83</b> 0,439 05
Profit and loss balan										•		679 @
												\$31,118 6
		1	Man	UPAC	TURI	NG A	rccon	NT.		Dr.		Ca.
Operating expenses,									8	4,457		-
Income from sale of									•	•		26,521 4
other se												196 1
Balance to profit and										2,249	74	
		,	-	•	•	•	-	•	_			
									8	6,707	63	\$6,707 6
		P	ROP	IT AN	D I	OBR /	Accor	INT.	•	-,,		<b>\( \psi_1 \)</b>
		-								DR.		Cr.
Balance June 30, 189			•				•	•		<b>\$3</b> 37	55	
Balance of manufact								•				\$2,249 7
Lamp and supply sal	es,	•										41 8
Interest paid, .										1,258	70	
Interest paid, . Depreciation, .										15	75	
Balance June 30, 189										679	62	
,												
W	овт	IRN	EI				HT	COM	IPA1	₹.		
	овт	IRN	EI		RIC		HT	COM	[PA]	₹.		
	овт	IRN	ei				— ЭНТ	COM	IPAI	₩.		<b>\$22,640</b> 53
Real estate, .		•	:	•			HT	COM	IPAI	₹. :		\$22,640 Si 45,522 11
Real estate, . Steam plant, . Electric plant, .				•	A8811			COM		· · ·		• •
Real estate, . Steam plant, . Electric plant, .				•	A8811			COM	(PA)	· · · · · · · · · · · · · · · · · · ·		45,522 1
Real estate, .	, tra:	nefo	orme	rs and	A8811	irs.	ps,	COM	: : :	· · · · · · · · · · · · · · · · · · ·		45,522 11 63,996 54
Real estate, Steam plant, Electric plant, Electric lines, meters Patent rights, Due for light and pov	· , tra:	nefo	· • •	rs and	Assu d arc	irs.	ps,	COM	:			45,522 11 63,996 54 166,287 18
Real estate, Steam plant, Electric plant, Electric lines, meters Patent rights, Due for light and pov	· , tra:	nefo	· • •	rs and	Assa	irs.	ps,		:			45,522 11 63,996 54 166,287 18 20,500 00
Real estate, Steam plant, Electric plant, Electric lines, meters Patent rights, Due for light and por Fuel on hand,	, tra:	nefo	orme:	rs and	Assu d arc	irs.	ps,		:			45,522 11 63,998 54 166,287 18 20,500 00 6,001 34
Real estate, Steam plant, Electric plant, Electric lines, meters Patent rights, Due for light and por Fuel on hand,	, tra:	nefo	orme:	rs and	Assu d arc	irs.	ps,		:			45,522 11 63,998 54 166,287 18 20,500 00 6,001 34 1,766 00
Real estate, Steam plant, Electric plant, Electric lines, meters Patent rights, Due for light and por Fuel on hand,	, tra:	nefo	orme:	rs and	Assu d arc	irs.	ps,		:			45,522 11 63,998 54 166,287 18 20,500 00 6,001 34 1,766 00 43 2
Real estate, Steam plant, Electric plant, Electric lines, meters. Patent rights, Due for light and pov Fuel on hand, Carbons on hand, Oil and waste on han Incandescent lamps of Globes on hand	, tra: , wer, . dd,	inefo	orme:	rs and	Assu d arc	irs.	ps,		:			45,522 11 63,998 54 166,287 18 20,500 00 6,001 34 1,766 00 43 20
Real estate, Steam plant, Electric plant, Electric lines, meters. Patent rights, Due for light and pov Fuel on hand, Carbons on hand, Oil and waste on han Incandescent lamps of Globes on hand	, tra: , wer, . dd,	inefo	orme:	rs and	Assu d arc	irs.	ps,		:			45,522 11 63,996 54 166,287 15 20,500 00 6,001 34 1,766 00 43 24 53 90 307 72
Real estate, Steam plant, Electric plant, Electric lines, meters. Patent rights, Due for light and pov Fuel on hand, Carbons on hand, Oil and waste on han Incandescent lamps of Globes on hand	, tra: , wer, . dd,	inefo	orme:	rs and	Assu d arc	irs.	ps,		:			45,522 11 63,998 54 166,287 18 20,500 06 6,001 34 1,766 06 43 21 53 90 307 72 25 90
Real estate, Steam plant, Electric plant, Electric lines, meters. Patent rights, Due for light and pov Fuel on hand, Carbons on hand, Oil and waste on han Incandescent lamps of Globes on hand	, tra: , wer, . dd,	inefo	orme:	rs and	Assu d arc	irs.	ps,		:			45,522 11 63,998 54 196,287 18 20,500 00 6,001 34 1,786 02 43 22 53 90 307 72 25 90 362 92
Real estate, Steam plant, Electric plant, Electric lines, meters Patent rights, Due for light and pov Fuel on hand, Carbons on hand, Oil and waste on han Incandescent lamps of Globes on hand	, tra: , wer, . dd,	inefo	orme:	rs and	Assu d arc	irs.	ps,		:			45,522 11 63,998 54 196,287 18 20,500 00 6,001 34 1,766 00 43 24 53 70 25 90 362 92 517 00
Real estate, Steam plant, Electric plant, Electric lines, meters Patent rights, Due for light and pov Fuel on hand, Carbons on hand, Oil and waste on han Incandescent lamps of Globes on hand, Other materials on hi Horses, wagons, etc., Sundry accounts due Office furniture,	, tra: , wer, . dd,	inefo	orme:	rs and	Assu d arc	irs.	ps,		:			45,522 11 63,998 54 166,287 18 20,500 04 6,001 34 1,766 06 43 24 53 90 367 72 25 90 363 92 517 00 3,009 85
Real estate, Steam plant, Electric plant, Electric lines, meters Patent rights, Due for light and pov Fuel on hand, Carbons on hand, Oil and waste on han Incandescent lamps of Globes on hand, Other materials on h Horses, wagons, etc., Sundry accounts due Office furniture, Cash on hand,	, tra wer, d, on ha	onefor	ormen	rs and	Assu · · · · · · · · · · · · · · · · · · ·	irs.	ps,		:		• • • • • • • • • • • • • • • • • • • •	45,522 11 63,998 54 166,287 14 20,500 01 6,001 34 1,766 04 43 24 53 90 307 72 25 90 363 92 517 00 3,009 85 345 60
Real estate, Steam plant, Electric plant, Electric lines, meters Patent rights, Due for light and pou Fuel on hand, Carbons on hand, Oil and waste on han Incandescent lamps of Globes on hand, Other materials on h Horses, wagons, etc., Sundry accounts due Office furniture, Cash on hand, Notes receivable,	wer, d, on he . and, .	inefo	orme:	rs and	Assu d arc	irs.	ps,		:			45,522 11 63,998 54 166,287 14 20,500 00 6,001 34 1,766 04 43 24 53 90 307 72 25 90 363 92 517 00 3,009 85 345 60 305 71 9,199 01
Real estate, Steam plant, Electric plant, Electric lines, meters Patent rights, Due for light and power Fuel on hand, Carbons on hand, Oil and waste on han Incandescent lamps of Globes on hand, Other materials on ha Horses, wagons, etc., Sundry accounts due Office furniture, Cash on hand, Notes receivable, Investments,	, tra. , tra. , d, on ha , and, , the	onsfo	ormer	ors and	Assuments of the second	lam			:			45,522 11 63,998 54 166,287 18 20,500 00 6,001 34 1,766 06 43 22 53 90 307 72 25 90 363 92 517 00 3,009 85 345 60 305 71 9,199 01 38,000 00
Real estate, Steam plant, Electric plant, Electric plant, Electric lines, meters Patent rights, Due for light and pow Fuel on hand, Carbons on hand, Oil and waste on han Incandescent lamps of Globes on hand, Other materials on h Horses, wagons, etc., Sundry accounts due Office furniture, Cash on hand, Notes receivable, Investments,  Total assets, as p	, traid, on he and, , the	oook	orme	and and a second a	Assuments of the second	lam			:			45,522 11 63,998 54 166,287 18 20,500 00 6,001 34 1,786 06 43 22 53 90 307 77 25 90 363 92 517 00 3,009 85 345 60 305 71 9,199 00
Real estate, Steam plant, Electric plant, Electric lines, meters Patent rights, Due for light and power Fuel on hand, Carbons on hand, Oil and waste on han Incandescent lamps of Globes on hand, Other materials on ha Horses, wagons, etc., Sundry accounts due Office furniture, Cash on hand, Notes receivable, Investments,	, traid, on he and, , the .	oook	ormer	ors and	Assuments of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	lam			:			45,522 11 63,998 54 166,287 18 20,500 00 6,001 34 1,766 06 43 22 53 90 307 72 25 90 363 92 517 00 3,009 85 345 60 305 71 9,199 01 38,000 00

					Li	BIL	TIBS.						
Capital stock,		•	•	•	•		•	•		•	•		\$120,000
Bonds issued,		•	•	•	•	•	•	•	•	•	•	•	134,500 (
Notes payable,		•		•	•	•	•	•	•	•	•	•	118,620 8
Unpaid bills,	•	•	•	•	•		•	•	•	•	•	•	8,900 4
Interest due bu	it not	t pai	d,	•	•	•	•	•	•	•		•	4,306 (
Amounts due f	rom	the	com	pany,	not i	inclu	ded a	pove	, .	•	•	•	4,146 (
Total liabil	lities	, <b>a</b> s	per b	ooks	of th	ie co	mpan	у,				•	\$390,473
			:	Mani	U <b>PAC</b>	TURI	ng A	.0000	NT.				
0											Dr.		Cr.
Operating expe					•	•	•	•	•	20	9,224	21	<b>-41</b> 40 <b>-</b> 1
Income from sa	ale of	Ling	nt an	a por	wer,	•	•	•	•				\$41,407 8
Balance to prof	it an	d lo	58,	•	•	•	•	•	•	_	2,183	32	
						_ •	<b>.</b>			84	1,407	53	\$41,407 5
Dolomas Tuna 9	A 10	οx		Ropi	T AN	ם דים	085 A	LCCOT		•1	Dr.		Cz.
Balance June 3 Balance of man					. •	•	•	•	•	Φr	4,053	40	\$2,183 8
Other items,						•	•	•	•		2,716	00	<b>\$2,100 a</b>
Balance June 3					•	•	•	•	•		<b>2,</b> 710	20	14,586 4
										81	6.769	74	\$16,769 7
		W	OBT	JRN		3 L1		. co	MPA	NY.			
Real estate,			OBT	JRN				co	MPA	NY.	•		<b>\$9,835</b> 8
			•	•		. 88 E1	rs. •	. co	MP.	NY.			\$9,835 8 28,122 8
Machinery and	man	ufac	cturii	•		. 88 E1	rs. •	. co	MP.	NY.	•		
Machinery and Street mains,	man	ufac	•	ng ap		. 88 E1	rs. •	. co	MPA	NY.			28,122 8
Machinery and Street mains, Meters,	man •	iufac	turii	ng ap	plian	. 88 E1	rs. •	. co	MPA	NY.			28,122 8 29,383 9
Machinery and street mains, deters, Oue for gas,	man	ufac	cturii	ng ap		. 88 E1		. co	MPA				28,122 8 29,383 9 3,000 0
Machinery and Street mains, Meters, Due for gas, Has coal on han	man · · ·	iufac	cturii	ng ap	plian	. 88 E1		. co	MPA				28,122 8 29,383 9 3,000 0 2,235 6
Machinery and Street mains, Meters, Due for gas, Jas coal on han Joke on band,	man	iufac	cturii	ng ap	plian	. 88 E1		. co	MPA				28,122 8 29,383 9 3,000 0 2,235 6 3,600 0 85 0
Machinery and Street mains, Meters, Due for gas, Sas coal on han Coke on band, Far on hand,	man · · · · · · ·	uufac	cturii	ng ap	plian	. 88 E1		•					28,122 8 29,383 9 3,000 0 2,235 6 3,600 0 85 0 665 0
Machinery and Street mains, Meters, Due for gas, Gas coal on han Coke on hand, Enrichers on ha	man		eturii	ng ap	Applian	. 88 E1			MPA				28,122 8 29,383 9 3,000 0 2,235 6 3,600 0 85 0 665 0 250 0
Machinery and Street mains, Meters, Due for gas, Gas coal on han Car on hand, Car on hand, Enrichers on ha	man and,	on l	eturii	ng ap	Aplian	Ces,		•				• • • • • • • • • • • • • • • • • • • •	28,122 8 29,383 9 3,000 0 2,235 6 3,600 0 85 0 665 0 250 0
Machinery and Street mains, Meters, Due for gas, Gas coal on hand, Car on hand, Car on hand, Carrichers on ha Purifying mater stoves and gas is	man   and, rials	on l	eturii	ng ap	Aplian	Ces,		•				• • • • • • • • • • • • • • • • • • • •	28,122 8 29,383 9 3,000 0 2,235 6 3,600 0 85 0 665 0 250 0 87 5
Machinery and Street mains, Meters, Due for gas, Gas coal on hand, Car on hand, Enrichers on ha Purifying mater Stoves and gas i	man   and, rials	on l	eturii	ng ap	Aplian	Ces,		•				• • • • • • • • • • • • • • • • • • • •	28,122 8 29,383 9 3,000 0 2,235 6 3,600 0 85 0 665 0 250 0 87 5 562 0 219 5
Machinery and Street mains, Meters, Due for gas, Gas coal on han Coke on band, Car on hand, Chrifping mater toves and gas i Office furniture, Cash on hand,	man  and, rials flatur	on l	eturii	ng ap	Aplian	Ces,		•				• • • • • • • • • • • • • • • • • • • •	28,122 8 29,383 9 3,000 0 2,235 6 3,600 0 85 0 665 0 250 0 87 5
Machinery and street mains, Meters, Due for gas, Bas coal on hand, Car on hand, Carlohers on ha Purifying mater toves and gas in the firm item, Cash on hand, Cash on hand,	man  and, rials fixtu	on h	onand,	ng ap	A pplian	COS,							28,122 8 29,383 9 3,000 0 2,235 6 3,600 0 65 0 655 0 250 0 219 5 3,390 2
Machinery and street mains, Meters, Due for gas, Bas coal on hand, Car on hand, Car on hand, Car on hand, Car on the Purifying mater toves and gas in Mice furniture, Cash on hand, nvestments,	man  and, rials fixtu	on h	onand,	ng ap	plian	. Ces,							28,122 8 29,383 9 3,000 0 2,235 6 3,600 0 85 0 250 0 275 7 562 0 219 5 3,390 2 2,500 0
Machinery and Street mains, Meters, Due for gas, Gas coal on hand, Far on hand, Enrichers on ha Purifying mater Stoves and gas i Office furniture, Cash on hand, investments,	man  and, rials fixtu	on h	onand,	ng ap	plian	. Ces,							28,122 8 29,383 9 3,000 0 2,235 6 3,600 0 85 0 665 0 250 0 87 5 662 0 219 5 3,390 2 2,500 0
Machinery and Street mains, Meters, Due for gas, Gas coal on hand, Car on hand, Enrichers on ha Purifying mater Stoves and gas in Office furniture, Lash on hand, Investments, Total assets Capital stock,	man  and, rials fixtu	on h	onand,	ng ap	plian	. Ces,							28,122 8 29,383 9 3,000 0 2,235 6 3,600 0 85 0 250 0 275 7 562 0 219 5 3,390 2 2,500 0
Capital stock, Deposits, .	man	on l	nand,	ang ap	Applian	CCOS,	ony,						28,122 8 29,383 9 3,000 0 2,235 6 3,600 0 65 0 250 0 219 5 3,390 2 2,500 0 883,937 3
Machinery and Breet mains, Meters, One for gas, Bas coal on hand. Car on hand, Car on hand, Carrichers on ha Purifying materitoves and gas in the furniture, Cash on hand, nvestments, Total assets Capital stock, Deposits,	man	on l	nand,	and,	Applian	CCOS,	ony,						28,122 8 29,383 9 3,000 0 2,235 6 3,600 0 85 0 665 0 250 0 219 5 3,390 2 2,500 0  \$83,937 3:
Machinery and Street mains, Meters, Due for gas, Gas coal on hand, Car on hand, Enrichers on ha Purifying mater Stoves and gas i Office furniture, Cash on hand, nvestments,  Total assets Capital stock, Deposits,	man	on l	nand,	and,	Applian	CCOS,	ony,						28,122 8 29,383 9 3,000 0 2,235 6 3,600 0 65 0 250 0 219 5 3,390 2 2,500 0 883,937 3

		M	[ANU	PAC	FURIN	rg A	ccou	NT.			
Oneretine erro	nese								Da 014 574		Ca.
Operating expe		•	•	•	•	•	•	•	\$14,576	יטט	<b>610 004 00</b>
Income from 88			•	į	•	•	•	•			\$16,684 02 0.010 05
	siduals,		•			•	•	•			2,019 95
	her source		•	•	•	•	•	•	4 1 55		24 00
Balance to prof	it and loss,		•	•	•	•	•	•	4,152	47	
•		_			_				\$18,727	97	<b>\$</b> 18,727 97
		P	ROPIT	· A:	n L	988 A	CCOT	NT.	Dr.		Ca.
Balance June 3	0, 1895,								-		<b>\$37,6</b> 57 87
Balance of man		acc	onnt								4,152 47
Interest receive	_		-			•	-	-			222 12
				•	•	•	·	•			622 73
Jobbing account Dividends decla	mad .	•	•	•	:	•	•	•	\$2,706	00.	022 10
Construction ch	armed off	•	•	•	•	•	•	•	1,182		
				•	•	•	•	•	•		
Balance June 3	0, 1886,	•	•	•	•	•	•	•	38,766	39	
			_						\$42,850	19	\$42,655 19
	WORCES	STE	R E	LE	CTRI	C L	ιgη,	т сс	MPANT	τ.	
					Asse	T8.					
Real estate,								•			\$75,000 00
Steam plant,											58,814 30
Electric plant,											66,235 83
Electric lines.											85,700 07
Meters, .		•		:	•					·	7.744 05
Transformers,					•	•	•	•	•	•	9,698 22
			•	•	•	•	•	•	•	•	18,258 30
Arc lamps, Due for light a	nd nower	•	•	•	•	•	•	•		•	14,962 88
Fuel on band,	na power,	•	•	•	•	•	•	•	• •	•	3,942 21
		•	•	•	•	•	•	•	• •	•	1,745 00
Carbons on har		•	•	•	•	•	•	•	• •	•	-
Oil and waste			•	•		•	•	•	• •		70 00
Incandescent la			•	•	•	•	•	•	• •	•	661 05
Globes on hand	•		•	•	•	•	•	•		•	224 64
Other material				•	•	•	•	•	• •	•	2,494 56
Tools on hand,	• •	•	•			•	•	•		•	1,981 70
Horses, wagon	s. etc.,			٠		•	•	•		•	766 28
Sundry accoun					•	•	•	•		•	480 10
Office furniture	, .		•	•	•	•	•	•			1,040 15
Cash on hand,	• •	•	•	•	•	•	•	•	• •	•	13,437 05
Total asset	ts, as per b	ook	s of t	he o	ompe	any,					<b>\$3</b> 63,256 <b>09</b>
				L	IABIL:	ITIE8	•				
Capital stock,		•	•	٠	٠	•	•	•	• •	•	<b>\$200,000 00</b>
Bonds issued,		•	•	•	•	•	•	•		•	100,000 00
Unpaid bills,		•	•	•	•	•	•	•	• •	•	1,037 90
Total liahi	lities, as m	er be	ooks	of t	he co	n pan	٧, `				8301,037 90
Total liabi Profit and loss	halance.			J- #1				:		•	62,218 19
1 10H 9H4 1088		•	•	•	•	•	•	•		•	
											2363,236 09

		Ma	.NTF/	LOTU	RIN	G A	ccou	T.				
									Dı	-	Cr.	
Operating expens				•		٠.	•	•	<b>\$</b> 87,99	£ 97		
Income from sale	of light a	ınd p	OW61	ľ,	•	•	•	•			<b>\$</b> 160,742	28
Balance to profit									72,74	7 31		
										_		-
									\$160,74	2 <b>2</b> 8	\$160,742	28
		PRO	DFIT	AND	L	)88 A	Lccov	NT.	_		_	
									D	B.	Cr.	^^
Balance June 30,		•	•	•	•	•	•	•			\$47,227	
Balance of manu				•	•	•	•	•			72,747	
Interest received,	,		•	•	•	•	•	•			1,116	
Jobbing account,				•	•	•	•	•			1,166	19
Interest paid, .			•	•		•	•	•	\$5,00	00 00		
Dividends declar	ed, .		•			•		•	16,00	00 00		
Depreciation, .			•						39,03	9 72		
Interest paid, Dividends declar Depreciation, Balance June 30,	1896									8 19		
	,								<u></u> .			_
•									\$122,25	7 91	\$122,257	91
				_								
	WOR	CEST	rer	GA	.8 ]	LIGI	HT C	OM	PANY.			
				A	188.	T8.						•-
Real estate,			•	•	•	•	•	•		•	\$162,860	
Machinery and n					e <b>ø</b> ,	•	•	٠		•	258,640	
Street mains,			•	•	•	•		•			188,001	01
Meters,				•							18,430	57
Due for gas,											15,736	00
Meters, Due for gas, Gas coal on hand, Coke on hand, Tar on hand, Enrichers on ha Other materials Cash on hand,	d										15,680	10
Coke on hand.											•	
Tar on hand.					-						-	
Enrichers on he	nd .				•	•	•	•		•	6,359	
Other meterials	on hand		•	•	•	•	•	•	• •	•	3,000	
Ceeb on hend	on naud,	•	•	•	•	•	•	•	• •	•	30,144	
out on adda,		•	•	•	• ,	. •	•	•		•		
Investments,		•	•	•	•	•	•	•	• •	•	3,352	DU —
Total assets,	, as per bo	oks	of th	e co:	mpe	ny,	•	•		•	<b>\$</b> 705, <b>4</b> 04	83
				T.ta	RIT.	ITIES	1_					
Cenitel stock											ekon non	Ω0
Capital stock, Bonds issued,	• •	•	•	•	•	•	•	•		•	\$500,000	
Dongs issued,			•	•	•	•	•	•		•	100,000	
Deposits, .		•	•	•	•	•	•	•		•	4,680	
Unpaid dividend	le, .	•	•	•	•	•	•	٠		•	10,140	-00
Total liabili	ties, as per	r boo	ks of	the	con	pan	у, .				\$614,820	18
Profit and loss b	alance,	•	•	•	•	•	•	•		•	90,584	65
											\$705,404	83
		M.	ANCF	ACT	URI	NG A	rccor	NT.	n	R.	Cz.	
Operating expen	ses.					_	_	_	<b>\$</b> 157,5			
Income from sal			:		:	•	•	•	A		\$240,077	RR
	iduals,						•	•			15,096	
169	uudais,	•	•	•	•		•	•			15,050	
Otto	er source	в,	•	•	•	•	•	•		<b>.</b>		20
Balance to profit	and loss,	•	•	•	•	•	•	•	97,7	74 66		
									\$255,3	19 17	\$235,319	17

		P	10F17	AND	Los	8 A	cour	T.		
									Dr.	Cr.
Balance June 30, 189	95,			•			•			<b>\$</b> 62,614 94
Balance of gas manu	ıfactı	uring	acco	unt,			•			97,774 66
Interest received,										589 18
Rents,										90 00
Other items of incon	ne,									33 76
Interest paid, .							•		\$5,021 25	
Dividends declared,									40,000 00	
Depreciation, .									25,496 64	
Balance June 30, 189	96,								90,584 65	
•										
									A161 100 F4	

\$161,102 54 \$161,102 54

#### APPENDIX B.

## BROOKLINE GAS LIGHT COMPANY.—COR-

OFFICE OF BROOKLINE GAS LIGHT COMPANY, 153 TREMONT St., BOSTON, Nov. 29, 1895.

Honorable Board of Gas and Electric Light Commissioners.

The Brookline Gas Light Company respectfully requests your Honorable Board to so revise and amend the rules or instructions relating to books and accounts of gas companies, issued in 1886 by your Board, as to authorize gas companies to charge to the appropriate construction or plant accounts such items of law expenses, interest, insurance, meter setting, advertising, canvassing, etc., as are incident to new construction work, and which can be properly separated from running expenses until that part of the plant for which such money is spent is put into actual use.

And further requests your Honorable Board to reconsider its findings of April 16, 1895, as contained in the report of that date to the Massachusetts Senate, and see if certain errors were not made therein, and if it finds that such errors have been made, to correct the same; and if certain of those items should not be transferred from expense into plant or construction accounts.

## BROOKLINE GAS LIGHT COMPANY,

ROBERT AMORY,

President and Manager.

#### COMMONWEALTH OF MASSACHUSETTS.

IN BOARD OF GAS AND ELECTRIC LIGHT COMMISSIONERS, STATE HOUSE, BOSTON, July 10, 1896.

Brookline Gas Light Company, Boston, Mass.,
Dr. Robert Amory, President and Manager.

DEAR SIR: — We have previously acknowledged the receipt of your communication of November 29, 1895, requesting a reconsideration of the special report of this Board to the State Senate

of 1895, relative to your company, for a revision of its findings, and for a modification of the instructions relating to books and accounts, issued pursuant to chapter 346 of the Acts of 1886, so that certain items may be charged to construction accounts, which, under said instructions, must be otherwise dealt with.

In view of the brief time allowed for the preparation of the report referred to, and of the fact that it appears upon examination that the accounts of the company have been corrected in full accord with the findings and suggestions in said report, we have welcomed your request, and have given most careful consideration to the oral and written representations in support of it which you have from time to time presented. As we understand your communication, it contains, with the exception of a single item, no claim of any clerical error in said report, or that the findings are other than in strict conformity to the instructions of 1886, unless on account of facts and reasons not appearing upon the face of the accounts, and not at the time of the report within the knowledge of the Board.

Your request has reference to the following items of the special report above mentioned:—

Distribution e	xpens	se,					\$14,952	11
Rebates, .							7,990	37
General office	expe	nses	3, .				39,872	27
Insurance,							4,390	53
Repairing and	setti	ing :	mete	18,			<b>2</b> 9,116	31
Claims, .							6,356	29
Repairs on str	eets,				•		8,889	80
Interest, .							44,618	58
Law expenses	١,						32,552	82

Of the item for "Distribution expenses," above named, we understand your statement to be that \$13,705.45 was for services and expenses of persons soliciting business for the company. Such work is not unusual in the ordinary conduct of a company's business, and not unlikely may continue in some degree necessary in your company. The exceptional conditions governing this feature in the last three years have, it is true, made this item of unusual size and importance. We cannot see, however, that it differs from the ordinary item in kind or character, but only in degree or size, and therefore properly belongs to current account rather than to construction.

Of the item of "Rebates," we learn from your statements that about \$3,659.74 is made up from a forced rebate or discount of from 30 to 50 cents per thousand feet from bills against the city.

being the difference between the price paid by the city to other companies for street lamps, and that for which your contract required you to supply during a period when you were unable to light them. None of this amount was found charged to operating expenses or subtracted from the income side. We are only able to regard it as a loss, and therefore appropriate to current account rather than to construction.

The amount for "General office expenses" includes the sum of \$21.500 paid to James Jourdan. It appears that Mr. Jourdan was a contractor for enlarging the company's plant, and that, soon after the contract was made, it was cancelled by mutual agreement and upon the payment to him of the sum named, contracts for the same work being made with other persons. What the transaction with Mr. Jourdan really was, and what was in fact his relation to the company, must be determined by all material facts. receipt from him declares that the payment was for "services rendered." We cannot see, upon all the facts presented, sufficient reason for making this a construction item. To us it appears as a loss rather than a profit. To add it to construction account would be to increase the account above even the actual fair cost of the work at the time of its execution. It should be noted that the important question as to this item, as well as some of the others, is not so much whether it belongs to this or that operating account, but whether to a current account or to construction.

Of the amount under the title of "Insurance" we are now satisfied that the sum of \$2,268.75 represents an error in the findings of the Board. In the original examination this amount was found included in the charges to "Boston contract," but the fact, now clearly shown, that it was afterwards taken out of that and charged to current account, was overlooked. This amount should be credited to "Profit and loss," and debited to the account to which it was credited at the time that the changes based upon the Board's report were made.

Respecting the item for "Repairing and setting meters, \$29,-116.31," the original finding of the Board seems to be in strict accordance with the instructions about accounts. By them all the cost of setting meters and of running service pipes, independent of main extensions, is made a part of distribution or current operating expense. This was found at the time the statement of accounts was devised to be in harmony with the usual practice and with that conservative policy respecting construction accounts which the Board finds itself obliged to encourage and require. It must be recognized, however, that in a new company, constructing a new plant, the cost of work of this character, so far as it may

be completed before the company begins the business of supplying gas, would properly be a part of the cost of the works and a fair charge for a construction account. Such a condition seems not to have been particularly considered when the instructions were originally issued. The conditions surrounding this expenditure in the case of your company seem to be substantially like those of a new company, and subject it to the same rule. The peculiar character of this item, however, makes it desirable that it be carried as a distinct account, or as two accounts, under the titles "Meter setting" and "Service pipes." You have, therefore, the authority of the Board for crediting this amount to "Profit and loss," and placing it to the debit of construction, as indicated.

The item of "Claims, \$6,856.29," as we understand the facts, is made up of payments for injury to persons or property, mostly on account of leaking mains and explosions of gas. The custom of companies, so far as we are aware, is to charge such disbursements as a part of their current expense. The instructions framed by the Board require them to be thus dealt with. We see no sufficient reason for making this item an exception to the general rule.

As to the item of "Repairs on streets, \$8,889.08," the entries in the accounts being made under that title and without other explanation, seemed to justify the Board in finding that this amount belonged to current account rather than to construction. After an examination, however, of the contracts, releases, correspondence, etc., with the contractors for this work, the Board is satisfied that the above-named sum was expended in restoring the streets to their normal condition after pipe laying, that such work was to have been done by the contractors, who made a reduction in their bill in order to be released from this requirement. The Board therefore considers that this amount may properly be transferred to the construction account intended to show cost of mains.

The present regulation about interest is based upon what we believe is, and has been, the usual practice among companies. It does not require the charging of interest as any part of operating expenses, but only that the interest paid or accrued during the year be charged directly to "Profit and loss." We are unable to see any sufficient reason for modifying this rule. The question, as it appears to us, is not between different current accounts, but between current accounts and plant or construction, sometimes called capital accounts. To accede to your request regarding this item would be virtually to assume that a new corporation might properly construct its works upon credit, add to their cost interest upon the money disbursed, and represent the total by new capital.

If we rightly understand the policy which underlies the issue and payment of capital stock in new enterprises, as indicated by our statutes, it is that such payments shall be so made as to place in the treasury of the corporation the funds it may need as construction progresses, and not that the works shall first be completed and then capitalized for an amount which may include all interest charges. Such a method would only increase the apparent cost of the plant, without reference to its fair structural value.

The item of "Law expenses" amounts to \$32,552.82, and is beset with difficulties. The Board recognizes the fact that every company requires, for the safety of its interests, the services of legal as well as engineering counsel. But in this case the company was opposed by every company whose territory it invaded, involving much and serious litigation to clear the way for the enjoyment of its franchise. These extraordinary expenses, however, lie beyond those that are deemed reasonably requisite in the installation of a company under normal conditions, and are the natural result of a war of competition, and one which the promoters of the enterprise could not have overlooked before entering upon it. The Board feels justified in allowing only what might be a generous allowance for counsel in a company whose construction expenditure was on the scale of the "Boston contract" under ordinary conditions, and fixes \$12,000 as the proportion under this head chargeable to construction.

The inability of the Board to consent to a modification of its findings or rules except in the instances named is not to be regarded as in any degree a criticism of the "Boston contract" account, so far as that account may be intended to show the actual cost to the company of carrying out that contract, since we have no good reason to doubt the correctness of the account for that purpose. Our position and contention are rather that certain charges as between current account and construction account belong to the former rather than to the latter. They add nothing to the structural value of the property, and, if inserted, tend only to mislead as to such valuation. The relation between construction accounts and capital accounts is a most intimate one. is often made a justification or excuse for increasing the latter. As the Board, in the discharge of its duty respecting the approval of new securities, has found it necessary to regard structural value as a most important factor, so it is compelled, with due regard to the interest of all concerned, to adopt such a policy in its supervision of a company's accounts as may tend to prevent the excess of construction accounts beyond the fair structural value of the

plant. It should be understood, further, that such an arrangement of accounts as this provision requires does not necessarily compel undue claims or charges against consumers for any particular year. A loss, when it is known to exist, can be as easily recouped through a series of years when it appears as a deficit as when it is partially concealed in construction accounts, while its elimination from the latter is certainly better calculated to exhibit at any time the true relation of the company's assets and liabilities.

For the Board.

F. E. BARKER, Chairman.

### APPENDIX C.

# MUNICIPAL OWNERSHIP. — CONSTRUCTION OF STATUTES.

- CITIZENS' GAS LIGHT COMPANY OF READING, SOUTH READING AND STONEHAM U. INHABITANTS OF WARRFIELD.
- SUPREME JUDICIAL COURT OF MASSACHUSETTS. MIDDLESEX. May 18, 1894.
- Purchase of Gas and Electric Light Plants by Town. Schedule of Property. Call for Stockholders' Meeting. Ratification by Stockholders of Acts of Directors. Constitutional Law.
- There is nothing in St. 1891, c. 370, indicating that, after a town has voted at two separate town meetings called as required by § 13, that it is expedient to exercise the authority conferred by the statute pursuant to § 3, any additional vote is necessary.
- The specific property which a town is required to purchase, in accordance with the provisions of St. 1891, c. 370, and the price, time and other conditions of the sale, are to be determined by the commissioner or commissioners to be appointed under § 13; and, if the poles for the support of the wires of an electric light company used in distributing electricity were not legally located, this would not entirely defeat the petition under the statute, and what effect it would have upon the property to be purchased or the price to be paid for it cannot be determined under such petition.
- The schedule of property under St. 1891, c. 370, is required for the purpose, not of furnishing such a formal description as may be necessary or proper in a conveyance, but of furnishing such information in detail to a city or town that the parties may intelligently negotiate for the purchase, or, if the parties cannot agree, of furnishing to the commissioners such a bill of particulars as may be necessary or convenient for an intelligent adjudication of the matters which they are to determine.
- On a petition by a gas and electric light company to compel a town to purchase its plant, etc., agreeably to the provisions of St. 1891, c. 370, it appeared that a schedule required by the statute was filed by the secretary of the company under the authority of a vote of its directors, and that the stockholders, at a meeting called to take action upon the proposition to sell, etc., and to transact such other business as should come before the meeting, ratified the action of the directors; but this was more than thirty days after the passage of the final vote by the town that it was expedient to exercise the authority conferred by the statute. It did not appear that there was any change of position on the part of either of the parties between the action of the directors and that of the stockholders, and the petitioner duly filed its petition within sixty days after the filing of the schedule. The town took no action to rescind its votes between the time of filing the schedule and the vote of the stockholders, if such action could have been

taken, and the petitioner never attempted to repudiate the action of the directors. Held, That the vote of the stockholders must be considered as within the call for the meeting at which it was passed, and that, without considering whether the determination to sell the property and to file the schedule according to the statute was within the authority of the directors, and assuming that the filing of the schedule within the thirty days was to be treated as a condition precedent to the right of the company to enforce the obligation of a town to purchase its property, the ratification by the stockholders must be taken as equivalent to original authority.

St. 1891, c. 370, entitled "An act to enable cities and towns to manufacture and distribute gas and electricity." is constitutional.

FIELD, C. J. This is a petition under St. 1891, c. 370, § 13, and the case comes before us by appeal from an order of a single justice, overruling the demurrer of the respondent, and by appeal from a decree from a single justice, appointing commissioners to determine what property shall be sold by the petitioner and bought by the respondent, and what the price, time and other conditions of the sale and delivery shall be. The facts on which the decree is founded are recited in the decree. The petition was filed on Oct. 28, 1892, and all the proceedings were had before the passage of St. 1893, c. 454.

The decree recites "that the petitioner is, and was at the times set forth in the petition, a corporation established under the laws of Massachusetts, and having its usual place of business at Wakefield, in the county of Middlesex; that it is, and was at said times, engaged in the business of manufacturing gas for the use of the inhabitants of the towns of Wakefield, Reading and Stoneham, with its main gas works in Wakefield, and with pipes extending into the towns of Reading and Stoneham; that it was duly authorized by the Board of Gas Commissioners, and by the necessary vote of stockholders, under and in pursuance of chapter 385 of the Acts of 1887, to engage in the business of generating and furnishing electricity for light and power in the towns of Reading, Wakefield and Stoneham, and is and was at said times engaged in furnishing electric light for commercial purposes to the inhabitants of the town of Wakefield, with its central lighting station in Wakefield."

It is contended that the two votes passed by the town, pursuant to St. 1891, c. 370, § 3, to the effect "that it is expedient for the town to exercise the authority conferred upon towns under the provisions of chapter 370 of the Acts of the year 1891," are not equivalent to a vote that the town decides to establish a plant for the manufacture and distribution of gas and electricity, but that an additional vote to the effect that the town decides to establish such a plant is required before the town becomes subject to the obligations imposed by the statute. (See §§ 12 and 13.) But the stat-

nte makes provision for only two votes. Section 12 begins as follows: "When any city or town shall decide as hereinbefore provided to establish a plant, and any person, firm or corporation shall at the time of the first vote required for such decision be engaged," etc. The provisions thereinbefore made are the votes required by § 3, and the first vote must mean the first vote required by that section. Section 13 begins as follows: "Any person, firm or corporation desiring to enforce the obligation of any city or town under section twelve to purchase any property shall file with the clerk of such city or town, within thirty days after the passage of the final vote whereby such city or town shall have decided to establish a plant, a detailed schedule describing such property and stating the terms of sale proposed," etc. The final vote must be the vote at the last of the two legal town meetings mentioned in § 3. This construction is confirmed by the language in the last clause of § 18. We find nothing in the statute anywhere indicating that, after the town has voted at two separate legal town meetings, called as required by § 3, that it is expedient to exercise the authority conferred by the statute pursuant to § 3, any additional vote is necessary, and we think that this contention cannot avail.

Section 12 provides as follows: "When any city or town shall decide as hereinbefore provided to establish a plant, and any person, firm, or corporation shall at the time of the first vote required for such decision be engaged in the business of making, generating or distributing gas or electricity for sale for lighting purposes in such city or town, such city or town shall, if such person, firm or corporation shall elect to sell and shall comply with the provisions of this act, purchase of such person, firm or corporation, before establishing a public plant, such portion of his, their or its gas or electric plant and property suitable and used for such business in connection therewith as lies within the limits of such city or town. If in such city or town a single corporation owns or operates both a gas plant and an electric plant, such purchase shall include both of such plants," etc. The petitioner, as the decree recites, operated both a gas plant and an electric plant in the town of Wakefield. The respondent contends that its poles for the support of the wires used in distributing electricity were not legally located in the town of Wakefield. On this question the decree recites as follows: --

It appeared that an application by petitioner for permission to erect and maintain poles and wires in the streets of Wakefield had been made to the selectmen of Wakefield under the provisions of chapter 382 of the Acts of 1887 (there being another company in said town engaged in or

organized for the purpose of doing an electric lighting business); that said permission was refused by said selectmen, but upon appeal taken to the Board of Gas and Electric Light Commissioners, under the previsions of said act, the decision of the selectmen was reversed, and said permission granted, the order of said Board being as follows, viz.:—

#### The Board of Gas and Electric Light Commissioners, Boston, May 27, 1890.

In the matter of the appeal of the Citizens' Gas Light Company of Reading, South Reading and Stoneham from the decision of the selectmen of Wakefield refusing to grant it permission to erect poles and string wires in the streets of said town, —

Ordered, That the decision of the selectmen be reversed, and that permission is granted to the Citizens' Gas Light Company of Reading, South Reading and Stoneham to erect wires over or under the streets, lanes and highways of the town of Wakefield for the purpose of supplying electricity for light and power.

Thereafter, on Aug. 7, 1890, at a regular meeting of said board of selectmen, without petition, notice to parties interested or a public hearing, the following vote was passed, viz.:—

Voted, That the Citizens' Gas Light Company of Reading, South Reading and Stoneham be, and is hereby, authorized and empowered to engage in the business of furnishing electricity for light and power in the town of Wakefield, and to erect poles and string wires in the streets and highways of said town, the location of said poles to be hereafter designated, and subject to such restrictions as to quality and style as may be imposed by the selectmen of said town of Wakefield, and subject also to such other provisions and conditions as may be required by said board of selectmen.

And a copy of said vote was furnished to the petitioner by the secretary of the board of selectmen of the town of Wakefield. But, except as aforesaid, the selectmen of the town of Wakefield had not given the petitioner any writing specifying where the posts to be used might be located, the kind of posts, and the height at which and the places where the wires might be run; and no such specifications had been recorded in the records of the town of Wakefield, in accordance with chapter 109, section 3, of the Public Statutes, and of chapter 221 of the Laws of 1883; and except as aforesaid, said petitioner received no written consent from the board of selectmen of said town to erect poles, lay or erect wires over or under the streets, lanes and highways of said town, or to dig up or open the ground within the streets or highways of said town, for the purpose of laying lines of wires or to erect and maintain lines of wires upon or above the surface of the streets and highways of said town, as provided in either chapter 382 or 385 of the Acts of 1887, or in compliance with any other statute. As to whether any oral directions or consent regarding said matters were given by the selectmen, no evidence was introduced by either party.

The contention is that, so far as the electric plant is concerned, every pole supporting the wires within the limits of the highways in the town of Wakefield is a public nuisance, and that the town cannot be compelled to purchase property of the petitioner which

the petitioner cannot legally use, and which may be removed and destroyed as a nuisance. The petitioner had received general authority to erect poles and lay wires in the public streets of the town. How far the particular location of the poles and the quality and style of them were subject to the approval of the selectmen of the town need not now be considered. The petitioner actually owned and operated an electric plant in the town. The specific property which the town is required to purchase, in accordance with the provisions of the act, and the price, time and other conditions of the sale, are to be determined by the commissioner or commissioners to be appointed under § 18. If the poles in the public ways were not legally located, this would not entirely defeat the petition, and what effect it would have upon the property to be purchased or the price to be paid for it cannot now be determined.

The respondent contends that the petitioner has not complied with the provisions of the act in filing a detailed schedule of the property within thirty days after the passage of the final vote, as required by § 13. The final vote was on Aug. 15, 1892. directors of the company, on Sept. 9, 1892, voted that the company file a detailed schedule of its property, in accordance with the act, and that the secretary be authorized to sign and file the same; and on September 12 the secretary, in the name of the company, filed with the clerk of the town a statement in detail of its plant, and the price and terms upon which the company would sell its property to the town. The contention is that the schedule should not be a mere list or catalogue of property, but a formal inventory, with a particular description, sufficient to enable a court to make a decree for specific performance, or such as would be required in a formal conveyance of the property. The provisions of the statute are, that, if the corporation desires to enforce the obligation of the town to purchase any property, it shall file "a detailed schedule, describing such property and stating the terms of sale proposed. If the parties fail to agree as to what shall be sold, or what the terms of sale and delivery in accordance with the provisions of this act shall be," either party may apply to the court; and the court shall appoint a commissioner or commissioners, who shall adjudicate "what property, real or personal, including rights and easements, shall be sold by the one and purchased by the other." It is evident that the schedule is not intended to settle finally just what property is to be included in the sale. We think that the schedule was required for the purpose, not of furnishing such a formal description of the property as may be necessary or proper in a conveyance, but of furnishing such information in detail to a city or town as the parties may need intelligently to negotiate for the purchase; or, if the parties cannot agree, of furnishing to the commissioners such a bill of particulars as may be necessary or convenient for an intelligent adjudication of the matters which they are to determine. We cannot say that the schedule filed in this case on its face appears not to be made up in sufficient detail to enable the town to understand what property specifically the petitioner owned and used in its business in the town of Wakefield, and we think that the commissioners probably could identify the property from the schedule, and intelligently make their adjudication. Certainly it does not appear in the papers before us that the commissioners will be unable to identify the property from the schedule, and from such facts as necessarily must be put in evidence before them.

The schedule was filed by the secretary under the authority of a vote of the directors of the company, and it is contended that it was beyond the power of the directors to determine whether the company would elect to sell its property to the town and avail itself of the provisions of the statute. (See Pub. Sts., c. 106, § 23.) The by-laws of the company are not set out in the papers. It appears, however, that on Sept. 19, 1892, the stockholders, at a meeting called for the purpose of taking action upon a proposition to sell the plant and assets of the company, and to transact such other business as should come before the meeting, ratified the action of the directors; but this was more than thirty days after the passage of the final vote by the town. We think that the vote of the stockholders must be considered as within the notice or call for the meeting at which it was passed.* It does not appear that there was any change of position on the part of either of the parties between the action of the directors and that of the stockholders, and the petitioner duly filed its petition within sixty days after the filing of the schedule. Without considering whether the determination to sell the property to the town, and to file the schedule in accordance with the provisions of the statute, was within the authority of the directors, and assuming that the filing of the schedule within the thirty days is to be treated as a condition precedent to the right of the company to enforce the obligation of a city or town to purchase its property, we are of opinion that the ratification by the stockholders in this case must be taken as equivalent to original authority. The town took no action to

[•] The respondent contended that the stockholders were not authorized to pass the vote which they did, as the meeting of the stockholders was a special one, called for the purposes set forth in the notice, and there was nothing in that notice informing the stockholders that there would be a motion to ratify the action of the directors.

rescind its votes between the time of filing the schedule and the vote of the stockholders, if any such action could have been taken, and the petitioner has never attempted to repudiate the action of the board of directors. (See Bolton v. Lambert, 41 Ch. D. 295; Andrews v. Ætna Ins. Co., 92 N. Y. 596; Nims v. Mount Hermon Boys' School, 160 Mass. 177; Dempsey v. Chambers, 154 Mass. 330.)

It is contended that St. 1891, c. 370, is unconstitutional. It is not in violation of the Constitution of Massachusetts for the Legislature to authorize a town to purchase and maintain either a gas or an electric plant for the purpose of furnishing light to its inhabitants. (Opinion of the Justices, 150 Mass. 592.) The Legislature might have authorized cities and towns to erect and maintain such plants, without requiring the cities or towns to purchase any existing plant of this kind belonging to private persons or a corporation, but it has not done so. Under this statute a city or town is not required to establish any such plant, and private persons or corporations are not required to sell to any city or town any existing plant. In this respect there is nothing compulsory in the statute. But, if a town chooses to act under the statute, it must act in accordance with its provisions. and take the burdens with the benefits. The statute does not provide for a trial by jury upon the value of the property purchased, or upon any of the terms of the purchase. If we assume that, when property is taken by a town for a public use, the owner of the property has a right to a jury trial upon the amount of the reasonable compensation to be paid, still, Article XV. of the Declaration of Rights has no application to a party who comes in voluntarily, under the provisions of a statute which provides for the determination of his rights and obligations in another manner than by a jury trial.

Decree affirmed.

S. K. Hamilton for the respondent, E. R. Champlin and C. R. Darling for the petitioner.

HUDSON ELECTRIC LIGHT COMPANY v. INHABITANTS OF HUDSON.

SUPREME JUDICIAL COURT OF MASSACHUSETTS. MIDDLESEX. April 1, 1885.

Obligation of Town to purchase Electric Light Plant. — Vote of Town. — Right of Town to rescind Vote. — Filing of Petition for Adjudication. — "Apply by Petition." — Statute.

St. 1891, c. 370, & l. authorized any city or town to purchase and maintain within its limits a plant for the manufacture or distribution of gas or electricity. Section 3 provided as follows: " No town shall exercise the authority conferred in section one until after a vote that it is expedient to exercise such authority shall have been passed by a vote of not less than two-thirds of the voters present and voting at each of two legal town meetings duly called for the purpose, of which meetings the second shall be held at an interval of not less than two nor more than thirteen months after the first." A warrant for a town meeting contained the following article: "To see if the town will vote to exercise the authority conferred in section one" of the statute, "or do or act anything respecting the same." Under this article the town voted "that the town do exercise the authority conferred in section one" of the statute, more than two-thirds of the voters present and voting having voted in the affirmative. Another meeting was held, more than two months later, at which there was a vote under an article in the same form as the other, and the language of the vote was the same as that at the former meeting, except that the words "that it is expedient for the town . . . to exercise the authority" were used instead of the words "that the town do exercise the authority." At this meeting more than two-thirds of the voters present and voting voted in the affirmative. Held, That, considering the whole proceedings together, the first vote taken by the town was sufficient under the statute.

After a town has voted at two separate town meetings, called as required by St. 1891, c. 370, § 3, that it is expedient to exercise the authority conferred by § 1 to purchase and maintain a plant for the manufacture or distribution of gas or electricity, after the schedule required by § 13 has been filed with the town clerk, and after a petition has been filed in this court under that section, to enforce the obligation of the town to purchase the petitioner's plant, the town cannot, by a subsequent vote, relieve itself from its liability so to purchase such plant.

The filing in the clerk's office of this court within the time required by St. 1891, c. 370, § 13, of a petition to enforce the obligation of a town to purchase an electric light plant, is an application by petition to this court for "an adjudication between the parties," within the statute.

Petition, under St. 1891, c. 370, § 13, to enforce an alleged obligation of the respondent town to purchase the electric plant and other property of the petitioner. Hearing before Holmes, J., who, at the request of both parties, reported the case for the consideration of the whole court; such decree to be made as equity might require. The facts appear in the opinion.

S. K. Hamilton and R. E. Joslin for the petitioner, Samuel Hoar, for the respondent.

Knowlton, J. 1. The first question in this case is whether the vote taken on July 1, 1891, was such as is intended by St. 1891, c. 370, § 3. The language of the statute is as follows: "No town shall exercise the authority conferred in section one until after a vote that it is expedient to exercise such authority shall have been passed by a vote of not less than two-thirds of the

voters present and voting at each of two legal town meetings duly called for the purpose, of which meetings the second shall be held at an interval of not less than two nor more than thirteen months after the first." The article in the warrant under which the vote was taken was: "To see if the town will vote to exercise the authority conferred in section one of chapter 370 of the Acts of the Legislature of the Commonwealth of Massachusetts for the vear eighteen hundred and ninety-one, entitled, 'An act to enable cities and towns to manufacture and distribute gas and electricity, or do or act anything respecting the same." The vote was: "That the town do exercise the authority conferred in section one of chapter 370," etc., more than two-thirds of the voters present and voting having voted in the affirmative. Another meeting was held on Sept. 2, 1891, at which there was a vote under an article in precisely the same form, and the language of the vote was the same as that at the former meeting, except that the words "that it is expedient for the town of Hudson to exercise the authority" were used instead of the words "that the town do exercise the authority." At this meeting more than two-thirds of the voters present and voting voted in the affirmative.

To the former vote it is objected that the words "it is expedient" were not used. But, considering the whole proceedings together, we are of opinion that the action of the town was taken under the section referred to, and that the vote must be taken to be a formal decision by the town that it is expedient to exercise the authority conferred by the statute. There is no other reasonable explanation of the town's action at this meeting. The determination by the town to exercise the authority necessarily included a decision that it was expedient to exercise it. The meaning of the vote is to be gathered from the entire record, and we are of opinion that the record makes its meaning clear.

2. It is contended that the votes of the town taken after the petitioner filed with the town clerk the schedule required by § 13 of this statute, and after this petition was filed with the clerk of the supreme judicial court, relieved it from its liability to purchase the property of the petitioner.* But it has been expressly held that the two votes of the town in a case like this fix the rights of a party that desires to sell a gas or electric plant, and if proper measures are taken to enforce its rights, they cannot be affected

[•] At town meetings held on Sept. 16, 1891, and Jan. 8, 1892, respectively, two successive committees were appointed by the defendant town to investigate the whole subject of municipal lighting. These committees successively reported, recommending that the town should not engage in the business of municipal lighting. At a town meeting held on March 15, 1892, a motion "that the town deems it expedient to buy or put in an electric plant" was rejected; and the reports of the committees were accepted and adopted.

by a subsequent attempt on the part of the town to rescind. (Citizens' Gas Light Co. v. Wakefield, 161 Mass. 432; Braintree Water Supply Co. v. Braintree, 146 Mass. 482; Hall v. Holden, 116 Mass. 172.)

In order to enforce its rights under the votes it was necessary for the petitioner, under § 13, not only to file with the clerk of the town within thirty days after the passage of the final vote a schedule of the property to be sold, but also within sixty days after the filing of the schedule to "apply by petition to the supreme judicial court, or any justice thereof, setting forth the facts, and praying an adjudication between the parties," etc. The petition in this case, which is in accordance with the requirements of the statute, was filed in the office of the clerk of the supreme judicial court within the time prescribed; but it was not brought to the attention of any justice of the court, nor were any proceedings had under it until about two years and a half after-It is contended that the filing of this petition in the clerk's office was not an application to the court within the meaning of the statute, and that therefore the petition must be dismissed. Ordinarily it would seem that to file such a petition in the office of the clerk of the court is to "apply by petition" to the court, for when such a petition is filed, it is before the court for appropriate action in accordance with its prayer. Any party interested in it can bring it to the attention of a justice and have proceedings taken under it. Suits that are to be commenced by filing a petition in court are usually deemed to be commenced at the time of the filing; and we think we are not warranted in giving to this statute a construction different in this particular from that generally given to similar requirements. (Pub. Sts., c. 49, § 106; c. 178, §§ 2, 7; c. 191, § 10.) Under St. 1885, c. 384, § 2, the supreme judicial court is always open in every county, and there are no longer any terms thereof. The petition when filed was before the court for immediate action. We are of opinion, therefore, that the petitioner applied by petition to the court within the meaning of the statute when it filed its petition in the clerk's office, and that this part of the defence fails. Whether there was any such act or neglect on the part of the petitioner, in connection with the filing of the petition or subsequently thereto, as to preclude the prosecution of the petition on the ground of laches, depends upon facts and considerations that are not fully reported.

Commissioners are to be appointed, unless an application is made by the respondent for a hearing on the question whether the petitioner lost its right to proceed by its failure to prosecute the petition within a reasonable time after it was filed.

So ordered.

## APPENDIX D.

### NEW LEGISLATION. -- ACTS OF 1896.

#### [CHAPTER 143.]

An Act to authorize the edison electric illuminating company of fall river to dispose of its property and franchise to the fall river electric light company.

Be it enacted, etc., as follows:

Section 1. The Edison Electric Illuminating Company of Fall River is hereby authorized, upon a vote of its stockholders at a meeting duly called for that purpose, to sell, transfer and convey its property, rights, licenses, privileges and franchises to the Fall River Electric Light Company, which is hereby authorized, upon a vote of its stockholders at a meeting duly called for that purpose, to purchase the same; and upon such sale, transfer and conveyance, the said property, rights, licenses, privileges and franchises shall be held and enjoyed by the said Fall River Electric Light Company, in as full and complete a manner as the same are now held and enjoyed by the said Edison Electric Illuminating Company.

Section 2. The said Fall River Electric Light Company is hereby authorized to increase its capital stock from two hundred thousand dollars, its present amount, to three hundred and fifty thousand dollars, and the number of shares from two thousand, the present number, to thirty-five hundred, and to issue the shares of such increase to the said Edison Electric Illuminating Company or to its stockholders, in payment for the said property, rights, licenses, privileges and franchises: provided, however, that the said Fall River Electric Light Company shall, upon the transfer and conveyance to it as above-named, assume and be responsible for all debts and liabilities of the said Edison Electric Illuminating Company; and provided further, that the issue of new stock shall be made in accordance with the provisions of chapter four hundred and fifty of the acts of the year eighteen hundred and ninety-four.

SECTION 3. This act shall take effect upon its passage. [Approved March 11, 1896.

#### [CHAPTER 338.]

An Act relative to accidents from gas or electricity.

Be it enacted, etc., as follows:

Section 1. The chief of police in any city or town and the medical examiner in any district in which a person, corporation or municipality is engaged in the business of manufacturing and selling gas or electricity for lighting or for fuel, shall make a written report to the board of gas and electric light commissioners of every accident caused by the gas or electricity manufactured or supplied by such person, corporation or municipality, whereby any person shall suffer bodily injury or loss of life or be rendered in sensible, stating the time, place and circumstances of the accident. Such report shall be made by the chief of police within twenty-four hours and by the medical examiner within seven days after notice of said accident.

SECTION 2. This act shall take effect upon its passage. [Approved April 28, 1896.

#### [CHAPTER 356.]

An Act to require gas and electric light companies to KEEP UNIFORM STATION RECORDS.

Be it enacted, etc., as follows:

SECTION 1. Commencing on the first day of July in the year eighteen hundred and ninety-six every person, corporation or municipality engaged in the manufacture or sale of gas and electricity for lighting shall keep such records of its work and doings, at its manufacturing station, and in respect to its distributing plant, as the board of gas and electric light commissioners may from time to time require; and said records shall be in such form as may be prescribed by said board.

Section 2. This act shall take effect upon its passage. [Approved May 1, 1896.

#### [CHAPTER 386.]

An Act to authorize the united electric light company to do business in adjoining cities and towns, to hold certain stock and to issue bonds.

Be it enacted, etc., as follows:

Section 1. The United Electric Light Company, located in Springfield, is hereby authorized, upon the approval of the board

of gas and electric light commissioners, to carry on its business in the cities and towns adjoining said Springfield, with all the rights, powers and privileges and subject to all the duties and liabilities in said adjoining cities and towns which now are or may be in force applicable to such corporations; and said corporation may hold the stock of the Indian Orchard Company, and may issue bonds in such amounts and at such times as the said board of gas and electric light commissioners may determine, and may mortgage or pledge as security for the payment of such bonds its franchises and any or all of its estate, real and personal.

SECTION 2. This act shall take effect upon its passage. [Approved May 11, 1896.

#### [CHAPTER 387]

An Act to repeal chapter forty-five of the acts of the year eighteen hundred and ninety, relative to the woonsocket electric machine and power company.

Be it enacted, etc., as follows:

Section 1. Chapter forty-five of the acts of the year eighteen hundred and ninety, entitled "An Act to authorize the Woonsocket Electric Machine and Power Company of Rhode Island to erect and maintain poles and wires and to furnish electric light and power in the town of Blackstone, in the state of Massachusetts," is hereby repealed.

Section 2. This act shall take effect upon its passage. [Approved May 12, 1896.

#### [CHAPTER 391.]

An Act relative to the paying in of capital stock and to the liability of officers and stockholders of foreign corporations doing business in this commonwealth.

Be it enacted, etc., as follows:

Section 1. The officers and members or stockholders in any corporation established under the laws of any other state or foreign country, and hereafter and not now having a usual place of business in this Commonwealth, shall be jointly and severally liable for its debts and contracts, on the same conditions and in the same manner as provided in the case of domestic corporations, by sections sixty to seventy-one inclusive of chapter one hundred and six of the Public Statutes; but the liability under clause four of said section sixty shall not apply in the case of foreign corporations.

Section 2. If the capital stock of any corporation subject to section one of this act has been paid in by a conveyance to the corporation of property, real or personal, the officers, members or stockholders of such corporation shall be jointly and severally liable for its debts or contracts, if said property is not conveyed and taken at a fair valuation. But only those officers or stockholders who participate in the conveyance or taking of such property at such unfair valuation, or those stockholders who have purchased or received their shares with knowledge of said fact, shall be liable for such debts. The extent and manner of enforcing such liability shall be the same as provided in sections sixty-nine to seventy-one inclusive of chapter one hundred and six of the Public Statutes in the case of domestic corporations.

SECTION 3. This act shall take effect upon its passage. [Approved May 12, 1896.

#### [CHAPTER 426.]

An Act relative to the duties and jurisdiction of the board of gas and electric light commissioners.

Be it enacted, etc., as follows:

Section 1. The supreme judicial court or the superior court, or any justice thereof, in term time or vacation may, on the application of the board of gas and electric light commissioners, by any appropriate process in equity enforce all lawful orders of said board and all provisions of law respecting persons, corporations or municipalities engaged in the manufacture and sale of gas and electricity for lighting.

Section 2. This act shall take effect upon its passage. [Approved May 21, 1896.

#### [CHAPTER 473.]

An Act relative to the issue of stock and bonds by Gas

and electric light companies.

Be it enacted, etc., as follows:

Section 1. Whenever, upon the application of any gas or electric light company to the board of gas and electric light commissioners for permission to issue new capital stock or bonds, pursuant to chapter four hundred and fifty of the acts of the year eighteen hundred and ninety-four, the board shall determine that the fair structural value of the plant of such company is less than its outstanding stock and debt, the board, if it shall approve an

issue of new stock or bonds, may prescribe to the company such conditions and requirements as it deems best adapted to repair the capital stock within a reasonable time, or, before allowing an increase, may require the capital stock to be reduced by a prescribed amount, not exceeding the amount of impairment; which amount of impairment and the conditions and requirements imposed shall be stated in the annual report of the board. The supreme judicial court or the superior court, on the application of the board or of any interested party, may compel such company, by any appropriate process, to comply with any condition or requirement prescribed as aforesaid.

SECTION 2. This act shall take effect upon its passage. [Approved June 4, 1896.

#### [CHAPTER 480.]

An Act relative to station records required to be kept by companies engaged in the supply either of gas or of electricity for lighting.

Be it enacted, etc., as follows:

Section 1. Chapter three hundred and fifty-six of the acts of the current year is hereby amended by striking out the word "and", in the fourth line of the first section thereof, and inserting in place of the same the word:—or,—so that said section shall read as follows:—Commencing on the first day of July in the year eighteen hundred and ninety-six every person, corporation or municipality engaged in the manufacture or sale of gas or electricity for lighting shall keep such records of its work and doings at its manufacturing station, and in respect to its distributing plant, as the board of gas and electric light commissioners may from time to time require; and said records shall be in such form as may be prescribed by said board.

Section 2. This act shall take effect upon its passage. [Approved June 4, 1896.

#### [CHAPTER 537.]

An Act to incorporate the massachusetts pipe line gas company.

Be it enacted, etc., as follows:

Section 1. Henry M. Whitney, Henry F. Dimock, Fred S. Pearson, James Phillips, Junior, Albert N. Parlin, George B. M. Harvey, John M. Bailey, Frank Leake, Jonas Wilder, Henry E. McCoy, and John L. Wellington, their associates and successors,

are hereby made a corporation, under the name of the Massachusetts Pipe Line Gas Company, for the purpose of manufacturing, buying, selling, dealing in, conveying, transporting and distributing gas for illuminating, heating, cooking, chemical, mechanical and power purposes, with all the powers and privileges and subject to all the duties, restrictions and liabilities in all general laws which now are or may hereafter be in force applicable to gas companies, except as hereinafter expressly provided.

SECTION 2. The following terms wherever used in this act shall have the application and meaning hereinafter set forth. unless some other meaning is clearly apparent from the language. context or manifest intent: - The word "company", or a pronoun in place of it, shall be taken and construed to mean the Massachusetts Pipe Line Gas Company hereby incorporated. The word "gas", shall be taken and construed as a general term for that commodity, without reference to its illuminating power. The words "illuminating gas", shall be taken and construed to mean gas of the purity and illuminating power required by general law. intended to be used for illuminating purposes by simple ignition at the burner. The words "fuel gas", shall be taken and construed to mean gas of any illuminating power, but of the purity required by general law as to illuminating gas, and intended to be used for heating, cooking, chemical, mechanical and power purposes, and may be used without connection with any chimney or The term "pipe line", shall be taken and construed to mean a line of mains, pipes or conduits, with the manholes and other apparatus necessary for the operation thereof, connecting a distributing system, plant for the manufacture of gas, or other pipe line, with any distributing system, plant, pipe line, town or city. The term "distributing system", shall be taken and construed to mean any system of mains, pipes or conduits, in any city or town, with the manholes and other apparatus necessary for the operation thereof, used for distributing gas from any central storage receiving point or pipe line to individual consumers or for public lights in such city or town. The word "board", shall be taken and construed to mean the board of gas and electric light commissioners.

Section 3. The capital stock of the company shall be one million dollars, divided into ten thousand shares of the par value of one hundred dollars each. The company may from time to time, but in compliance with the provisions and requirements of the general laws of the Commonwealth applicable to the issue of capital stock, increase its capital stock to an amount not exceeding five million dollars.

SECTION 4. The company may, for the purposes aforesaid and subject to the conditions hereinafter set forth, lav. construct. maintain, repair and operate its pipe lines and distributing systems in, along, through, under, across or over any public ways, water courses, railroads, railways, canals, bridges or subways; and may make such excavations and construct such works as may be necessary for the laying, construction, maintenance, repair, extension, operation and examination of such conduits, pines, manholes and other apparatus, machinery and works. But nothing herein shall be construed as authorizing the location by said company of any of its pipes, lines, works, conduits, manholes or machinery in, over, through, under or upon any subway, navigable water course, cemetery or public park or common or public reservation in the nature of a park, until said company has first obtained the consent of the board of harbor and land commissioners, park commissioners or other authorities having control of such subways, cemeteries, navigable water courses, parks, commons or public reservations in the nature of parks. No conduit, pipe or main shall be laid longitudinally along the location of any railroad company, nor shall any manhole or other structure be erected within such location, without the consent of the directors of such railroad company; but the company may lay, construct, maintain and operate its conduits, pipes or mains across or under any such location, at such times and under such reasonable regulations and restrictions as the directors of such railroad company shall prescribe.

SECTION 5. If the company shall desire for its pipe lines the right to construct, maintain and operate the same in the streets, lanes and highways of any city or town, it shall petition the aldermen or selectmen therefor, stating the termini of such pipe line in such city or town with as much particularity and certainty as practicable, and stating the streets, highways and lanes in which the company desires to locate such pipe line; and the aldermen or selectmen shall grant that location, or such other location in such streets, lanes and highways as they shall deem proper. In the event that said aldermen or selectmen shall for a period of thirty days refuse or neglect to grant a location, or if the company is dissatisfied with the location granted, it may within sixty days thereafter appeal to the board, who, after such hearing and notice as they shall deem proper, shall grant to the company reasonable locations between said termini for such pipe line in the streets, lanes and highways of said city or town. Upon the granting of such locations by said aldermen, selectmen or board, the company may lay, construct, maintain and operate such pipe line in the location granted. Similar rights as to additional pipe lines in the same city or town shall be obtained only by permission of the board. The company may, upon obtaining such locations, and subject to such regulations and restrictions in respect to the manner and time of conducting the work as said aldermen or selectmen shall prescribe, dig up and open the ground in any of the streets, lanes and highways of said city or town so far as is necessary to accomplish the object of the corporation; but such grant shall not affect the right or remedy to recover damages for an injury caused to persons or property by the doings of the company. It shall put all such streets, lanes and highways which are opened by it in as good repair as they were when opened, and to the satisfaction of the local authorities of the city or town in which such streets, lanes or highways are located, and upon failure so to do within a reasonable time shall be deemed guilty of a nuisance. In constructing, maintaining, repairing or extending its distributing system in any city or town the company shall be subject to all the restrictions, regulations and liabilities set forth in section seventyfive of chapter one hundred and six of the Public Statutes, except as in this act provided; and in the construction, maintaining, repairing and extending of its pipe lines and distributing systems it shall in all cases be subject to the restrictions, regulations and liabilities set forth in sections seventy-six and seventy-seven of said chapter one hundred and six. If in making such excavations any water or gas pipes, sewers, drains, conduits or other subterranean works are disturbed or interfered with, the same shall, at the expense of the company, be restored to as good condition as they were in before such excavation. All locations granted under this section shall be subject to revocation by said aldermen or selectmen respectively, subject to the approval of said board.

Section 6. The company may, subject to the approval of the board and upon such terms and conditions as may be mutually agreed upon, and as may be approved by the board, purchase, lease or operate the works, distributing system and other property of any person, firm, corporation, town or city engaged in the business of selling or distributing gas, or any portion of such works, distributing system or other property in any city or town in which the company has laid a pipe line; provided, however, that nothing in this act shall authorize the company to issue new capital stock or bonds for the purpose of such purchase in excess of the amount issued by the corporation whose works are purchased; and such person, firm, corporation, town or city may sell or lease any of its works, distributing system or other property to the company as aforesaid. The company may thereupon use the said works, distribut-

ing system or other property for the purpose of selling gas to the inhabitants of the town or city within which the same are situated; provided, however, that in case of any such purchase, lease or operating contract, the prices charged by the company to individual consumers or for public lights shall thereafter be subject to the jurisdiction of the board, as provided by section nine of chapter three hundred and fourteen of the acts of the year eighteen hundred and eighty-five, and shall not in any case exceed the prices ruling at the time of such purchase, lease or operating contract; nor shall the company discontinue any portion of the distributing system it may acquire by any such purchase, lease or operating contract, but shall be subject to the provisions of section five of chapter three hundred and forty-six of the acts of the year eighteen hundred and eighty-six.

SECTION 7. The company may sell or deliver fuel or illuminating gas to any gas company or to any town or city authorized by law to distribute gas; and any gas company and any such town or city may contract for the purchase of gas of the company for such term of years, and on such conditions as may be mutually agreed upon; but the prices charged by the company for such gas shall not exceed the following amounts per thousand cubic feet for fuel gas of a heat value not less, on the average, than five hundred and eighty British thermal heat units, delivered at the holder or mains of any such gas company, town or city, at the following distances from the state house: Twenty cents within five miles, twenty-five cents between five and fifteen miles, and thirty cents beyond fifteen miles, and not exceeding five cents additional in each case for illuminating gas of the candle power required by law. In any city or town having the right to manufacture or distribute gas the company shall supply such city or town with gas for distribution upon the same terms as it shall supply it to any gas company distributing gas in such city or town. The price charged by the company for fuel or illuminating gas to individual consumers shall not exceed the following amounts per thousand cubic feet, as herein provided: Within eight miles of the state house, sixty cents; to the inhabitants of any city outside of the above limit, having a population of more than seventy-five thousand, seventy-five cents; to any other city outside of said limit, ninety cents; to the inhabitants of any town, one dollar and twenty-five cents. The company shall not sell gas to individual consumers except as provided in section six of this act.

SECTION 8. The supreme judicial court and any justice thereof, and the superior court and any justice thereof, shall have jurisdiction in equity, on petition of any party interested, to compel com-

pliance with the provisions of this act and to prevent any violations of the provisions thereof.

SECTION 9. This act shall take effect upon its passage. [Approved June 9, 1896.

#### [CHAPTER 544.]

An Act relative to the use of streets by corporations. Be it enacted, etc., as follows:

Section seventy-five of chapter one hundred and SECTION 1. six of the Public Statutes is hereby amended by inserting after the word "companies", in the first line, the words: - corporations organized for the purpose of transporting the United States mail. merchandise and other articles by means of pneumatic pressure or power. — so as to read as follows: — Section 75. Gas light companies, corporations organized for the purpose of transporting the United States mail, merchandise and other articles by means of pneumatic pressure or power, and corporations organized for either or both of the purposes mentioned in section eleven, may, with the consent in writing of the mayor and aldermen of a city or the selectmen of a town, dig up and open the grounds in any of the streets, lanes and highways thereof, so far as is necessary to accomplish the object of the corporation; but such consent shall not affect the right or remedy to recover damages for an injury caused to persons or property by the doings of such corporations. shall put all such streets, lanes, and highways which are opened, into as good repair as they were in when opened; and upon failure so to do within a reasonable time, shall be deemed guilty of a nuisance.

Section seventy-six of chapter one hundred and Section 2. six of the Public Statutes is hereby amended by striking out in the second line of said section, the words "a gas company", and inserting in place thereof the words: -- any gas light company, or of any corporation organized for the purpose of transporting the United States mail, merchandise or other articles by means of pneumatic pressure or power, or of any corporation organized for either or both of the purposes mentioned in section eleven, - also by striking out the words "the gas company", in line seven of said section, and the words "such company", in line eight, and also in line nine of said section, and inserting, in each instance, in place of the words so stricken out, the words: - said company or corporation, — so as to read as follows: — Section 76. When a party injured in his person or property by a defect in a highway, caused by the operations of any gas light company, or of any corporation organized for the purpose of transporting the United States mail, merchandise or other articles by means of pneumatic pressure or power, or of any corporation organized for either or both of the purposes mentioned in section eleven in laying down or repairing its pipes or otherwise obstructing such way, recovers damages therefor of the place wherein such injury is received, such place shall, in addition to the damages so recovered against it, be entitled to recover all the taxable costs of the plaintiff and defendant in the same action, in a suit brought against said company or corporation, if said company or corporation is liable for said damages, and if reasonable notice is given by such place to said company or corporation, so that it may defend the original action.

SECTION 3. All issues of stock and bonds under the provisions of this act shall be subject to the approval and certification of the board of gas and electric light commissioners, in the manner provided in chapter four hundred and fifty of the acts of the year eighteen hundred and ninety-four.

Section 4. This act shall take effect upon its passage. [Approved June 9, 1896.

#### [CHAPTER 546.]

An Act relative to the licensing of engineers and firemen of stationary engines.

Be it enacted, etc., as follows:

Section 1. It shall be unlawful for any person to have charge of, or to operate a steam boiler or engine in this Commonwealth (except locomotive boilers and engines, boilers in private residences, boilers under the jurisdiction of the United States, boilers used for agricultural purposes exclusively, boilers of less than eight horse power, and boilers used for heating purposes only, provided with a device approved by the chief of the district police limiting the pressure carried to fifteen pounds to the square inch), unless he holds a license as hereinafter provided; and it shall be unlawful for any owner or user of any steam boiler or engine (other than those above excepted) to operate or cause to be operated a steam boiler or engine, for a period of more than one week. without a duly licensed engineer or fireman in charge: provided, however, that every person who has been employed continuously as a steam engineer in this Commonwealth for the period of five years next prior to the passage of this act, and who files with his application a certificate of such fact under oath, accompanied by a statement from his employer or employers verifying the same fact, shall be entitled to a license without further examination.

SECTION 2. Any person desiring to act as an engineer or fireman, shall make application for a license to so act to an examiner

of engineers, upon blanks to be furnished by the examiner, and if upon examination the applicant is found trustworthy and competent, a license shall be granted to him. Such license shall continue in force for three years, unless for a sufficient cause, affecting the trustworthiness or competency of the person licensed, and after a hearing, the same is sooner revoked; and the said license unless so revoked shall at the end of said three years be renewed by an examiner of engineers, upon application, and without examination.

- Section 3. All applications for licenses shall be accompanied by a fee of one dollar, and a like sum shall be paid for all renewals of licenses. All fees so paid shall be accounted for by the examiners to the chief of the district police, who shall return the same monthly to the treasurer of the Commonwealth.
- Section 4. The members of the boiler inspection department of the district police shall act as examiners, and shall enforce the provisions of this act, and the governor of the Commonwealth is authorized to appoint two additional inspectors to act as examiners of engineers, under this act, at an annual salary of fifteen hundred dollars and their actual traveling and necessary expenses.
- Section 5. Any person dissatisfied with the action of any examiner in refusing or revoking a license, may appeal from his decision to the five other examiners, who shall together act as a board of appeal, and a majority of whom shall have power to hear the parties and pass upon the subjects of appeal. The decision of said majority of the remaining examiners so acting shall be final, if approved by the chief of the district police.
- Section 6. It shall be the duty of the examiners to notify every person whose names and addresses are known to them, and who will require licenses under the provisions of this act, to apply for said licenses, and to give such persons a reasonable opportunity to be examined within the city or town where they reside or are employed.
- SECTION 7. Whoever intentionally violates the provisions of section one of this act shall be punished by a fine not exceeding three hundred dollars, or by imprisonment not exceeding three months.
- Section 8. All acts or parts of acts inconsistent herewith are hereby repealed. The provisions of this act, so far as they are the same as those of chapter four hundred and seventy-one of the acts of the year eighteen hundred and ninety-five, shall be construed as a continuation of that chapter and not as new enactments.
- SECTION 9. This act shall take effect upon its passage. [Approved June 9, 1896.

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## ANNUAL REPORT

## INSPECTOR

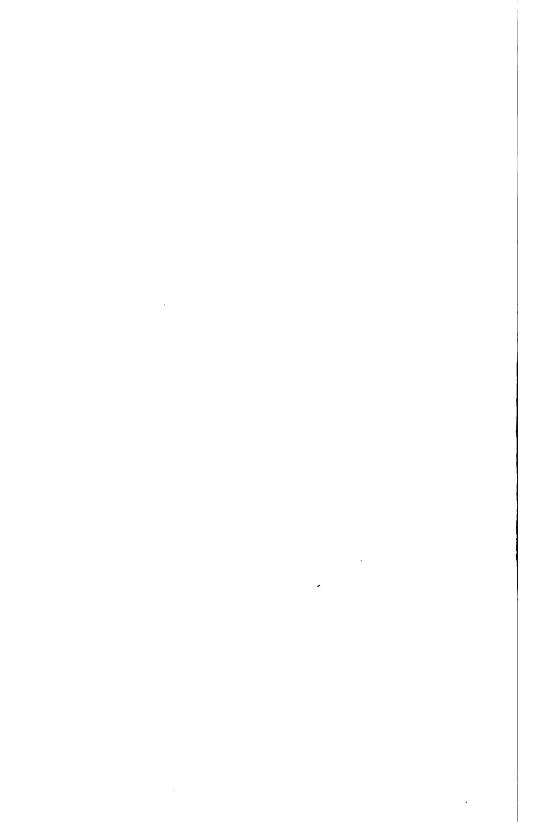
OF

# Gas Meters and Illuminating Gas.

JANUARY, 1897.

#### **BOSTON:**

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## Commonwealth of Massachusetts.

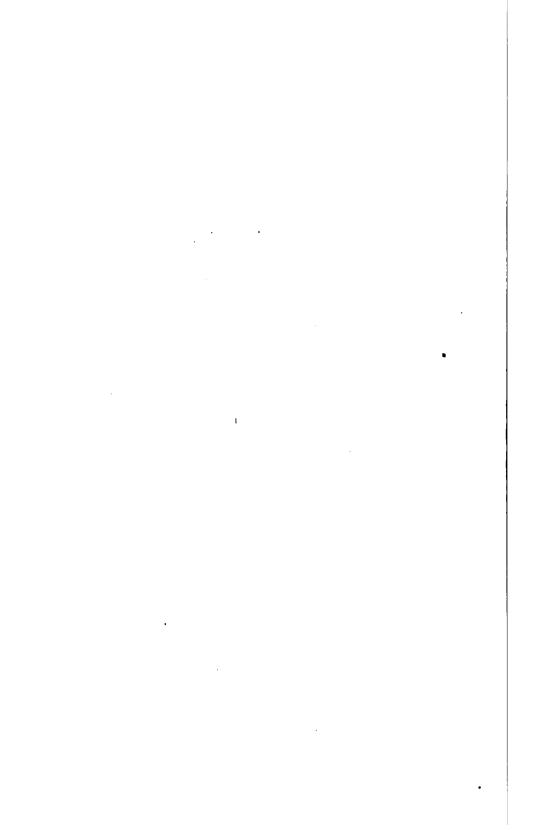
OFFICE OF INSPECTOR OF GAS AND GAS METERS, 32 HAWLEY STREET, BOSTON, MASS., Jan. 30, 1897.

Hon. WM. M. OLIN, Secretary of the Commonwealth.

Sir:— I have the honor to hand you herewith the report of the Inspector of Gas Meters and of Illuminating Gas for the year 1896.

Respectfully,

CHAS. D. JENKINS.



### REPORT.

Office of Gas Inspection, 32 Hawley Street. Boston, Mass., Jan. 30, 1897.

To the Honorable Senate and the House of Representatives

The Inspector of Gas Meters and of Illuminating Gas submits the following report:—

During the year ending Dec. 31, 1896, 22,875 gas meters were tested, 588 gas inspections made, four meter provers graduated and a number of eudiometric gas analyses made.

Of the total number of meters tested 21,675 were either new or repaired and were presented for inspection by the manufacturers or gas companies. A few of these meters failing to register correctly were returned for adjustment and then re-tested.

The remaining 1,200 belong to the class of "Complaints"; these are meters which, being in use, are suspected by the consumer or gas company of registering inaccurately; section 12 of chapter 61 Public Statutes provides, in such case, for the official re-inspection of the meter on complaint of either party. Of these, one would not pass gas, seven would not register, 602 were correct within the legal limits of two per cent. fast or slow, 477 were fast, the average error being 4.87 per cent., and 113 were slow, the average error being 8.41 per cent. The total average error of the 1,192 registering meters was 1.22 per cent. fast. Of the fast meters 278 were less than 5 per cent. fast, 167 between 5 and 10 per cent., 24 between 10 and 15 per cent., 6 between 15 and 20 per cent., one 20 and one 22 per cent. fast. Of the slow meters 40 were less than 5 per cent. slow, 44 between 5 and 10 per cent., 14 between 10 and 15 per cent., 5 between 15 and 20 per cent., one 23, one 24, two 25 and one each 27,

35, 42 and 80 per cent. slow. A comparison with previous years of this same class of meters is given in the following table:—

	FAST METERS.		SLOW I	METERS.	CORRECT.	1	OTAL.
YEAR.	Number.	Per Cent.	Number.	Per Cent.	Meters.	Number.	Per Cent.
1890,	64	5.32	20	28.60	184	218	0.60 slow
1891,	52	4.74	34	10.03	144	230	0.41 slow
1892,	105	5.67	49	9.28	190	344	0.41 fast
1893,	197	5.10	46	9.30	284	527	1.23 fast
1894,	217	4.70	55	8.56	827	604	0.99 fast
1895,	301	4.73	93	9.72	549	957	0.40 fast
1896,	477	4.87	113	8.41	602	1,200	1.22 fast

While most of the companies give much attention to their meters, it is well to bear in mind a few conditions for the preservation of accuracy in properly made meters; first, careful handling; second, being set in places where the temperature is equable and not too high; and third, being used to measure only well purified gas. Tar, ammonia, oily vapor and sulphuretted hydrogen are all liable to affect the continued proper working of the meters.

The gas supplied by the seventy companies was tested at irregular intervals during the year, no notice being given of an intended visit. The law provides two inspections yearly for each company and an additional inspection for every six million feet of gas supplied, until the inspections become An inspection comprises the determination of the weeklv. candle power, the amount of total sulphur and ammonia and the presence of sulphuretted hydrogen. The candle power is taken by the Bunsen photometer, using a standard English sperm candle and the Bunsen disc. There are open and closed photometers, 60 and 100 inch bars and one and two Some of these photometers candles used for a standard. have been compared with the portable photometer and the results found to agree. The law prescribes as the testing burner that one which is best adapted to the gas under examination and at the same time suitable for domestic use, while burning at the rate of five feet per hour, as nearly as practicable. For the high candle power water gases the Sugg's table top six foot open burner is used; for the low candle power water gases, the richer coal gases and the mixed water and coal gases, the Sugg's improved London argand size F is used; size D both old and improved argand is used for the poorer coal gases; while the oil and oil-air gases are tested with open burners ranging in capacity from one-half foot to three feet per hour. All candle power results are reduced to the legal-rate of five feet per hour.

The sulphur, determined as total sulphur per 100 feet of gas, is found by burning the gas through a Bunsen burner in an atmosphere containing ammonia, condensing the products of combustion and analyzing the resulting ammonium sulphate.

The ammonia is determined by bubbling the gas through hydrochloric acid, of known strength, colored with cochineal, until the indicator changes color; from the strength of the acid and the amount of gas used the number of grains of ammonia per one hundred cubic feet is easily found.

Sulphuretted hydrogen is detected by holding a paper, moistened with basic acetate of lead, over an open burner for about thirty seconds, a brown or black stain showing the presence of this undesirable impurity.

The law requires the gas to be of sixteen candle-power, to have not more than twenty grains of sulphur per one hundred feet of gas, or ten grains of ammonia and no sulphuretted hydrogen.

The following table gives the results obtained during the year by the assistant inspector and myself; these results were furnished the Board of Gas and Electric Light Commissioners from time to time during the year, at its request. The larger companies are those which, making fifteen million or more feet yearly, have a stationary photometer at some distance from the works; in order to test the smaller companies it is necessary to carry a portable photometer from place to place.

Larger Companies.

Number of Inspections made.	NAME OF PLACE OR	· •				
H de di	COMPANY.	Average.	Highest.	Lowest.	Sulphur.	Ammonia.
52	Boston,	24.46	27.0	21.1	9.29	1
5	Brookton,	19.56	21.5	17.9	8.44	6.64
52	Brookline,	25.60	28.2	24.0	7.06	1
28	Cambridge,	18.12	19.4	17.0	10.38	1.98
17	Charlestown, .	19.20	21.2	18.0	10.49	1
7	Chelsea,	18.01	19.4	16.6	9.11	2.39
21	Dorchester,	23.90	25.5	20.7	9.65	1
9	East Boston, .	18.22	19.5	17.5	9.43	2.28
12	Fall River,	22.62	24.5	19.1	7.80	1
5	Fitchburg,	17.80	19.0	16.9	8.96	1.70
6	Gloucester,	17.53	18.2	17.1	10.22	1
13	Haverhill,	23.40	25.3	20.7	6.76	1
11	Holyoke,	19.05	23.1	16.2	8.16	5.40
11	Jamaica Plain, .	18.32	19.9	16.4	11.49	3.24
14	Lawrence,	19.38	20.4	18.5	9.04	1
44	Lowell,	19.96	22.6	18.8	9.98	1.90
18	Lynn,	18.82	20.4	16.3	10.34	1
10	Malden,	17.72	19.2	16.9	10.24	1
10	New Bedford, .	19.39	20.5	18.1	10.98	1
14	Newton,	18.12	19.6	17.1	10.92	1.—
5	North Adams, .	17.10	18.1	16.8	8.38	9.08
81	Roxbury,	24.10	26.9	20.6	8.80	1.—
8	Salem,	18.27	20.0	16.5	9.50	1.50
15	South Boston, .	24.61	26.1	23.1	9.38	1.—
18	Springfield, .	19.27	21.3	17.1	11.31	1.—
8	Taunton,	17.72	19.0	14.6	8.12	3.82
5	Waltham,	17.74	19.8	16.5	5.68	3.62
28	Worcester,	19.97	21.4	18.6	9.85	1.—
	Average, .	19.82	-	-	9.31	1.60

Smaller Companies.

mber of spections made.	NAME OF PLACE OR COMPANY.	Candle-power.	GRAINS PER ONE HUNDRED FRET OF GAS OF—			
Man and an an an an an an an an an an an an an		_	Sulphur.	Ammonia.		
3	Adams,	20.63	6.10	1.—		
8	Amesbury,	20.30	8.87	1.—		
8	Arlington,	18.07	9.87	2.00		
2	Athol,	20.20	8.40	1.—		
4	Attleborough,	16.92	9.77	1.—		
8	Beverly,	18.08	9.73	6.93		
3	Chicopee,	18.57	5.10	1.—		
2	Chicopee Falls,	22.15	6.70	1.—		
3	Clinton,	17.53	9.78	1.—		
2	Danvers,	17.55	10.60	8.75		
3	Dedham,	17.30	11.30	1.—		
3	Easthampton,	18.13	6.87	10.83		
2	Greenfield,	16.75	7.60	10.00		
3	Manufacturers' (Fall River),	18.43	5.67	1.77		
2	Marblehead,	17.45	10.85	1		
3	Marlborough,	16.00	10.43	1.—		
3	Milford,	17.17	8.80	3.23		
2	Nantucket,	18.10	6.35	1.—		
2	Natick,	16.80	9.25	1		
8	Newburyport,	17.28	11.97	1.—		
4	Northampton,	17.97	4.85	1.62		
2	Norwood,	18.30	11.95	4.15		
4	North Attleborough,	16.77	10.50	3.67		
4	Pittsfield,	23.37	5.52	1.—		
2	Plymouth,	17.55	6.30	8.00		
8	Quincy,	16.27	10.30	6.57		
8	Spencer,	19.90	6.23	1.—		
2	Stoneham,	25.10	6.75	1.—		
8	Wakefield,	17.50	8.47	1.—		
8	Ware,	16.93	8.20	5.43		
3	Webster,	16.60	7.90	1.—		
8	Westfield,	17.58	8.37	1.—		
8	Woburn,	18.13	10.47	1.—		
	Average,	18.34	8.40	1.96		

Companies making Gas from Petroleum.

Number of Inspections made.	, Nam	LE OF	PLA	CE O	R COI	(PAN)	r.			Candle- power.
2	Amherst, .		•			•				42.40
2	Gardner, .	•				•	•			50.95
2	Ipswich, .	•				•	•	•	.	25.05
2	Leominster,						•	•	.	29.75
2	Lexington,				•		•		.	28.15
2	Middleborough,	•	•			•	•			22.65
2	Southbridge,	•				•	•	•	.	22.75
2	Stoughton, .		•			•	•	•		47.85
2	Williamstown,					•		•	.	49.15
	Average,		•	•	•	•	•	•	_	35.41

The following table gives the averages in comparison with those of 1894 and 1895:—

1896.	1895.	1804
19.07	19.30	19.31
8.85	9.29	9.47
1.79	2.46	2.57
17.61	18.03	17.98
22.77	23.28	23.64
19.39	19.65	19.63
35.41	83.00	31.48
	. 19.07 . 8.85 . 1.79 . 17.61 . 22.77 . 19.89	. 19.07 19.30 . 8.85 9.29 . 1.79 2.46 . 17.61 18.03 . 22.77 23.28 . 19.39 19.65

At Plymouth, Manufacturers' of Fall River and Gloucester the tests have been made, as formerly, at the works as being the most available places. The business of the Manufacturers' Gas Light Company has been assumed by the Fall River Gas Works Company, and the former's works closed. At Gloucester a stationary photometer has been provided at the works' office, which will be used in place of the portable photometer until a suitable place is provided up town.

Chicopee Falls has installed a water gas plant in place of the oil gas apparatus formerly used, and both tests made were of the new gas; Malden and Holyoke have both added water gas apparatus and now supply mixed coal and water gases, six tests at Holyoke and two at Malden being made since the additions.

The Citizens' Gas Light Company of Reading, South Reading and Stoneham has been added to the inspector's list during the year, two tests of the gas supplied having been made; this company uses the Kendall process and an analysis of the gas appears in the table of analyses.

In the following tables are given the particulars in which the various companies have failed to meet the requirements of the law:—

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Deficient candle-power: -
Marlborough, October 16,.
Quincy, September 3,
                                          . 14.4
Taunton, February 12,
    Excess of ammonia: -
Beverly, November 11,
                                           . 11.9 grains per 100 ft.
Brockton, May 12,
                                          . 18.9
Cambridge, December 2, .
                                          . 15.4
                                                             66
                                          . 11.2
Cambridge, December 10, .
                                                             44
Easthampton, August 3, .
                                           . 14.5
Greenfield, February 27. .
                                                             ..
Holyoke, June 20,
                                                             "
North Adams, October 28, .
                                           . 15.4
                                                             66
                                           . 14.9
                                                             "
North Adams, December 17,
                                          . 14.9
                                                             66
Taunton, February 12,
                                                             ..
                                             10.9
Ware, December 16, .
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Presence of sulphuretted hydrogen: -

Amesbury, March 11.
Amesbury, October 7.
Amesbury, December 21.
Amherst, March 26.
Amherst, December 9.
Arlington, December 2.
Adams, December 17.
Athol, March 25.
Athol, December 10.
Charlestown, February 11.

Ipswich, December 21.
Middleborough, December 26.
Nantucket, August 28.
North Adams, February 27.
Southbridge, April 9.
Southbridge, December 29.
Spencer, December 18.
Stoneham, December 1.
Williamstown, December 17.

For three consecutive failures to meet the requirements in any one particular a fine of one hundred dollars becomes due the city or town; at Amesbury, Amherst and Athol the series of three detections of sulphuretted hydrogen were completed and fines became due. At Southbridge the detections were for the first and second times. Ammonia was found too high twice at Cambridge, but at the third test December 22 it had dropped to 5.9 grains. The ammonia excesses at North Adams were not consecutive. Attention should be called again to what seems lack of care in allowing sulphuretted hydrogen to remain in so many of the gases.

The following table gives the results obtained in analyzing some gases during the year, the last three being those used in connection with the calorimetric tests:—

		Candle- power.	Iliami- nants.	Marsh Gas.	Hydrogen.	Carbonic Oxide.	Nitrogen.	Oxygen.	Carbonie Acid.
Boston, .		26.4	15.08	21.11	32.77	24.38	3.47	0.21	3.03
Chelsea, .		18.6	7.29	37.92	47.89	5.42	1.98	-	_
Norwood,		19.7	5.67	39.41		5.60	4.27	-	0.22
Stoneham,		27.4	23.70	22.04		18.12	38.57	_ ;	1.56
Boston, .		25.7	15.55	21.44	30.29	26.90	3.06		2.76
Charlestown,		17.8	10.42	28.63	42.80	13.93	2.03	-	2.19
Newton, .	•	17.2	5.23	34.80	50.59	6.16	2.06	_	1.16

The Stoneham gas, specific gravity 0.700, was made by the Kendall process, which consists of blowing air, steam and oil into a fire brick-lined generator. This process necessarily leaves a large amount of nitrogen in the gas and therefore requires large amounts of illuminants to counteract the diluting effect of the inert nitrogen.

Three more calorimetric tests have been made and the results are given in the following table:—

NAME OF PLACE OR COMPANY.	Newton.	Charlestown.	Boston.
Kind of Gas.	Coal.	One-third Water. Two-thirds Coal.	Water.
B. T. U. gross at 60° F. and saturated with moisture,	655.2	658.3	789.7
B. T. U. in condensed water, .	56.0	44.7	50.0
Net B. T. U. at 60° F. and 30 in. barometer, saturated, being usual commercial standard; from experiment,	599.2	613.6	689.7
Net B. T. U. of dry gas at 32° F. and atmospheric pressure,	644.2	650.0	741.5
Theoretical B. T. U. from analysis, dry gas at 60° F. and atmospheric pressure, gross,	661.6	662.2	738.6
Chemical formula for illuminants from, analysis,	C _{2.91} H _{5.68}	C _{9.81} H _{5.18}	C _{2.51} H _{6.88}
B. T. U., value per cu. ft. illuminants,	2,857.0	1,794.8	2,154.0
Specific gravity of gas,	.421	.507	.673
Candle-power,	17.2	17.8	25.7

The first figures give the results obtained from the calorimeter; from these gross calorific values were subtracted the amounts of heat absorbed from the condensed products of combustion, which in practice would go off in vapor. These values are the usual commercial values for the heat units of gas, being for gas saturated with moisture at 60 degrees F.

and the atmospheric pressure. The gases were analyzed in the usual manner with Hinman's eudiometric apparatus and then in a new portion of gas the carbon density, or ratio of carbon and hydrogen, in the illuminants determined; from the composition of the hydrocarbons the heating values were calculated. The British Thermal unit is the amount of heat required to raise one pound of water one degree Fahrenheit, so for Boston gas one cubic foot would raise 689.7 pounds water from 60 to 61 degrees.

I have been assisted in the above inspections and experiments by the assistant inspector, Mr. L. S. James.

Respectfully submitted,

CHARLES D. JENKINS,

Inspector of Gas and Gas Meters.

